

Project Summary Report

CPSC 546 SPR 2025

Option 1: Managing a simulated group agile project

Team Members

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Table of Contents

Table of Contents.....	1
Overview	1
Process	2
Release Plan.....	3
Sprint Activities	5
Sprint 0	6
Sprint Planning Meeting.....	7
Standup Notes.....	7
Sprint 1	7
Sprint Planning Meeting.....	8
Stand Up	9
Backlog Refinement Meeting.....	13
Sprint Review Meeting	13
Retrospective	14
Burndown Chart	14
Sprint 2	15
Sprint Planning Meeting.....	15
Stand Up	16
Backlog Refinement Meeting.....	19
Sprint Review Meeting	19
Retrospective	19
Burndown Chart	20
Sprint 3	20
Sprint Planning Meeting.....	21
Stand Up	22
Backlog Refinement Meeting.....	23
Sprint Review Meeting	23
Retrospective	24

Burndown Chart	24
Closing Notes	26
Artifacts	26
Student Information System Screenshots	26
References	31

Overview

The purpose of this document is to record activities performed by CPSC 546 team members during the simulation of an agile project, Student Information System (SIS). This assignment requires us to design and implement a system that supports Administrators, Professors and Students with features such as course management, grade entry, and transcript viewing.

The document includes the following sections:

Process

This section explains the overview and logistics of the process the team has adopted, developed, and agreed on to follow for the duration of the simulation.

Release Plan

This section includes the initial and any modified plans that pertain to the scope of the planned release at the end of the three 2-week sprints. It identifies at a Feature level the capabilities of the target system.

Sprint Activities

This section documents all Scrum ceremonies, decisions made, and outcomes of each simulated sprint.

Closing Notes

This section covers the team's self-assessment of how well we practiced agile methods throughout the simulation and our overall experience with the group project assignment.

References

Any resources we used during this assignment.

Process

The process defined herein is a collection of practices and guidelines adopted from Agile methodologies and CMMI for agile project management. We aim to adhere to the guidelines of the Agile Manifesto and the lessons learned from the course, textbook, and online references.

Practices

- Scrum ceremonies - planning, backlog refinement, stand up, sprint review and retrospective
- Project Planning – estimations (Story Points), develop a plan, commit to plan
- Project Monitoring and Control – use Jira, burndown charts, scrum meetings, and review meetings
- Risk Management - be explicit and realistic about risks and identify mitigation steps

Team Agreement

- Sprint Duration: 2 weeks (10 business days)
- Planning: First day of Sprint
- Backlog Refinement: 2nd W of Sprint
- Retrospective: Last day of Sprint
- Stand Up Schedule: M, W, F at 7:30pm – 7:45pm
- Requirements: Written on story cards (in Jira)

Release Plan

Initial Release Plan

The following features are included in the release plan. Our goal by the end of 3 sprints is to deliver core functionality for the three user groups: Administrator, Professor, and Student. This version 1 release should include the capabilities for an Administrator to manage course catalogs and course details, for a Professor to manage his course roll and assign grades, and for Students to enroll in classes and view grades.

Sprint 1

- SIS-5: Admin: User Management
- SIS-6: Admin: Catalog Management
- SIS-7: Admin: Transcript Services

Sprint 2

- SIS-8: Professor: Class Roll Management
- SIS-9: Professor: Grades
- SIS-10: Professor: Student History

Sprint 3

- SIS-11: Student: Course Enrollment
- SIS-12: Student: Student History
- SIS-13: Student: View Catalog

Updated Release Plan (4/21/2025)

Sprint 1

- SIS-5: Admin: User Management
- SIS-6: Admin: Catalog Management
- SIS-7: Admin: Transcript Services

Sprint 2 + 3 (release)

- SIS-8: Professor: Class Roll Management
- SIS-9: Professor: Grades
- SIS-10: Professor: Student History
- Plus improvement tickets for Admin (TBD)

Sprint 4

- SIS-11: Student: Course Enrollment
- SIS-12: Student: Student History
- SIS-13: Student: View Catalog

Updated Release Plan (5/5/2025)

Sprint 1

- SIS-5: Admin: User Management
- SIS-6: Admin: Catalog Management
- SIS-7: Admin: Transcript Services

Sprint 2 + 3

- SIS-8: Professor: Class Roll Management
- SIS-9: Professor: Grades
- SIS-10: Professor: Student History
- Removed improvement tickets for Admin

Sprint Activities

This section includes documented activities performed by the Scrum team during the three 2-week Sprint simulations. Section is broken down into the following format for each Sprint:

- Planning
- Standup
- Retrospective
- Burndown

Other to-dos include:

- Reviewing Planning, Before Sprint, and After Sprint checklists.

Checklist Example

Planning

- ☐ Define the DONE criteria for top 10 user stories defined in your product backlog.
- ☐ Identify top 5 risks at the beginning of each of the three simulated sprints.

Before Sprint

- ☐ Identify top 5 risks at the beginning of each of the three simulated sprints.
- ☐ Define sprint goals.

After Sprint

- ☐ Refine release plan
- ☐ Record improvements made to the process
- ☐ Burn down

Sprint 0

Sprint 0 is a technical exploration and planning sprint. During this sprint, team members identify and address technical and domain challenges. Work done in this sprint are tasks and not related to user story design and implementation.

The goal of Sprint 0 is to address uncertainties, evaluate and decide on a technology stack, set up the project, decide on a deployment strategy, and assign component owners for frontend, backend, database, and UI/UX.

Sprint Planning Meeting

The Scrum team identified the Sprint 0 tasks that need to be addressed before the actual work for the Student Information System begins.

Standup Notes

3/17/2025

- Brainstormed uncertainties, decisions, and potential tasks.
- Discussed pros and cons of various platforms for application and database hosting.
- Decided on PERN (Postgres, Express, React, and Node) stack.
- Selected Supabase for Postgres and Render for application hosting.
- Deciding factors included team's familiarity, cost, and ease of use.

3/19/2025

- The team held a working session to address architectural spike issues.
- Watched PERN tutorial YouTube video for research.
- Setup initial project.

3/21/2025

- Team created user stories for Admin functionalities: user management, catalog management, and transcript services.
- Discusses database design.

Sprint 1

The goal of Sprint 1 is to deliver core functionality for the Admin user.

Sprint Planning Meeting

3/24/2025

Planning Checklist

- ☐ Define the DONE criteria for top 10 user stories defined in your product backlog.
- ☐ Identify top 5 risks at the beginning of each of the three simulated sprints.

Done Criteria for top 10 user stories

Reviewed all requirements in product backlog, assigned story points, prioritized user stories, and defined DONE criteria for top ten. This took us 2.5 hours.

Projects							
CSUF Student Information System ...							
Summary Timeline Backlog Board Calendar Reports List Forms Goals All work Development Code Security Releases More 4 +							
Basic JQL project = "SIS" and Issuetype not in (Feature) and "Done Criteria[Paragraph]" is not empty and Sprint in (1) u? ? Clear filters Save filter Group ? ? ? ?							
Enter to search Shift+Enter to add a new line							
☐	Type	Key	Summary	Sprint	Story point estimate	Done Criteria	Assign +
☐	☒	SIS-24	Create workflow block diagram for front-end pages	None +1	2	Diagram work product is produced	LN Loc Ng
☐	☒	SIS-14	User login frontend	None +1	3	User logs in successfully with valid credentials.	RP Ryan P
☐	☒	SIS-15	Admin can create users	None +1	3	New user is added to the database.	LN Martine
☐	☒	SIS-17	Admin can view collection of all users	None +1	5	* Admin can see a list of all users on the screen in a table. * Table should display columns (user id, user full name, user...	RP Ryan P
☐	☒	SIS-21	Admin can add new courses (Title, description, prerequisites.)	None +1	3	New course with title, description, and prerequisites is added and visible in the course catalog.	LN Loc Ng
☐	☒	SIS-49	Database - Add test data to users table	None +1	1	Test user accounts is created for Admin, Professor, and Student role type.	LN Martine
☐	☒	SIS-50	Database - Add test data to students and professors table	None +1	1	Test data exists for a student and a professor.	LN Martine
☐	☒	SIS-23	Admin can edit existing course info	None +1	2	Updated course information is saved in the database.	LN Loc Ng
☐	☒	SIS-29	Admin can create course catalog	None +1	5	The finalized course catalog is saved and visible to students and professors.	LN Loc Ng
☐	☒	SIS-4	Create user stories for Professor	None +1	5	User stories are created for the 5 use cases.	LN Thanh I
☐	☒	SIS-30	Create routers for User login	None +1	3	Router endpoints are created and returns a 200 response when called	LN Thanh I
☐	☒	SIS-51	Database - Verify existing schema is valid for course/sections/semesters/prereq	None +1	2	Schema is valid.	LN Martine
☐	☒	SIS-20	Admin can view course catalog	None +1	2	Admin can access a list of all current courses.	LN Martine
+ Create							
13 of 13							

Before Sprint Checklist

- ☐ Identify top 5 risks at the beginning of each of the three simulated sprints.
- ☐ Define sprint goals.

Identify top 5 risks

1. Uncertain if future decisions will affect the initial project structure. This may cause the need for refactoring and restructuring.
2. Because the team has not established a team velocity, Sprint 1 may be overloaded. This may cause unfinished work to rollover to the following Sprint and delay feature delivery.
3. User stories might not be sized appropriately. Points may change when work begins. This may also cause work to rollover.
4. Frontend development requires block diagram before implementation. If not delivered early in the Sprint, development may be delayed.
5. Feature testing requires frontend and backend to be delivered together. If one is late, testing may be rushed towards the end of Sprint and the feature might not be thoroughly tested. Thus, causing defects.

Sprint goals

- Deliver login page and core functionality for Admin user.

Stand Up

3/26/2025 (Standup)

What did you work on, any obstacles

- Discussed current project burndown chart
- **Thanh**
 - Connected Jira tickets to GitHub
 - Created burndown chart and fixed errors
 - Troubleshoot Jira issues for burndown
 - Updated acceptance criteria
 - Export Jira tickets to report
 - Started working on routers
 - Next 24: Continue working on the initial setup and create routers for login
- **Loc:**
 - Completed workflow diagram for frontend
 - Created Admin frontend UI

- Completed SIS-21 Admin can add new courses (Title, description, prerequisites.)
- Next 24: Will work on SIS-23 Next
- **Eric:**
 - Added data to tables
 - Created frontend admin page to create a user
 - Created a direct connection to the database to add user
 - Completed SIS-49 Database - Add test data to users table
 - Completed SIS-50 Database - Add test data to students and professors table
 - Next 24: Will pull from backlog.
- **Ryan:**
 - Created Login page UI
 - Structured frontend files to make the webapp more scalable
 - Completed SIS-14 User login frontend
 - Next 24: Create student portal front end

3/28/2025

- **Thanh**
 - Added scope
 - Cleaned up node modules
 - Created build scripts
 - Enabled CICD pipelines for GitHub
 - Created database module
 - Created routers for user logins
 - Added documentation for server side
 - Next 24: Create routers for admins
- **Eric**
 - Committed to data schema, added data
 - Created ticket for data schema
 - Next 24: Add couple flags to the table for courses, add columns to tables, work on front end and backend of course catalog

- **Loc**
 - Improved sis-21 UI
 - Added input field and created display tables
 - Completed SIS-23 edit cost information
 - Next 24: SIS-27
- **Ryan**
 - Created student portal front end
 - Started SIS-20, created a prototype for the input field and view functionality
 - Next 24: Continue on SIS-20 and start on SIS-17

3/31/2025

- **Loc**
 - Worked on SIS-27 – Courses added/edited are now displayed on the “delete sections” page. Admin can delete the incorrect or outdated courses from the catalog
 - Next 24: Will finish SIS-6.
- **Ryan**
 - Connected login page with admin portal
 - Added in a toggle for login page to skip authentication
 - Next 24: Will test authentication, continue work on View Student Transcript, View Collection for all users.
- **Thanh**
 - Create routers for admin.
 - Will work on user stories for Professor
- **Eric**
 - Reviewed and validated current schema structure.
 - Started SIS- 28.
 - Claimed SIS- 34, 35.
 - Next 24: Will work on Sis –21.

4/2/2025

- **Ryan**
 - Implemented login router functionality to the login page
 - Created a toggle button for test mode to bypass login
 - Next 24: Finish SIS-20 and SIS-27 (View Student Transcripts, Admin can view collection of all users)
 - Obstacle: need help connecting to database to extract data tables from
- **Thanh**
 - Continued working on SIS-31.
 - Next 24: Continue with SIS-31, create user stories for Professor, and ask for help.
- **Loc**
 - Completed SIS-29: Admin can create course catalog frontend
 - Will work on SIS-60: Admin UI - Update Transcript
- **Eric**
 - Added data to courses
 - Created View Course Catalog page
 - No impediments
 - Next 24: Continue working on Admin Edit Course Catalog

4/3/2025

- **Ryan**
 - Finished SIS-27
 - Next 24: Work on View Student Transcript
- **Loc**
 - Created UI for SIS-25 Admin Update Transcript
 - Next 24: Help Thanh
- **Thanh**
 - Worked on SIS-31.
 - Impediment is time. Will ask Eric and Loc for help.
 - Next 24: Will work with Loc and Eric on the remaining routers.

- **Eric**
 - Created SIS-34 & SIS-35
 - No impediments
 - Next 24: Help with SIS-31 to insert course related data into tables

Backlog Refinement Meeting

The product owner, Thanh, added new user stories for the Professor's use cases and prioritized the items in the backlog. Thanh reviewed the prioritized list with the Scrum team and was able to cancel some user stories that did not make sense to keep anymore. The result of the backlog has Admin features at the top, followed by Professor's features, which is planned for Sprint 2.

Sprint Review Meeting

1. Product demonstration -
 - a. Did we meet the sprint goals?
 - b. Feature
 - i. Bypass login page
 - ii. User Management
 1. View users
 - a. Need to remove columns: password
 2. Add new user
 - a. Styling does not match rest of website
 - iii. Catalog Management
 1. Able to add courses
 2. Feedback: Be able to view existing catalogs. When clicking on Create Course Catalog, needs to be able to enter academic year.
 3. Move Add new course up one level
 4. Need Add new section
 - iv. Transcript Services
 1. Change search Student ID or First and Last Name.
 - c. Feedback: Styling does not match rest of website
2. Stakeholder feedback
3. Change the Product Backlog
 - a. Added items SIS-67 to 72

Retrospective

What can be improved for the next sprint?

Start doing

- Low priority – improve CI/CD build script
- Break huge user stories into smaller subtasks for frontend and backend
- Discuss the vision for the UI before implementing it

Stop doing

- No need to require a code review for every commit, only big changes

Keep doing

- Dedicate 1 standup meeting to have backlog refinement
- Maintain 3-day scrum meetings during weekdays
- Continue to use Jira for backlog and sprint management

Burndown Chart

Projects / CSUF Student Information System / Reports

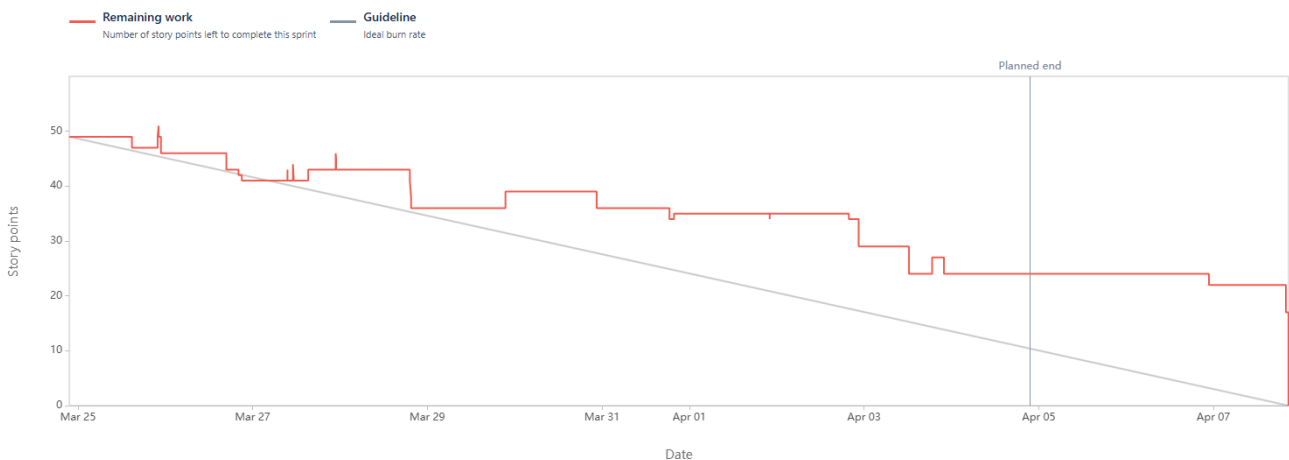
Sprint burndown chart

[How to read this report](#)

Sprint: Estimation field:

Date - March 24th, 2025 - April 4th, 2025

Sprint goal - Deliver core admin functionality



End of Sprint Checklist

- ☐ ~~Refine release plan~~
- ☐ ~~Record improvements made to the process~~
- ☐ ~~Burn down~~

Sprint 2

Sprint Planning Meeting

4/7/2025

Sprint 2 Planning Checklist

- ☐ ~~Define the DONE criteria for top 10 user stories defined in your product backlog.~~
- ☐ ~~Identify top 5 risks at the beginning of each of the three simulated sprints.~~

Done Criteria for top 10 user stories

Projects / CSUF Student Information System

Active Sprint ★ [Filter details](#)

Share Group Export Go to all issues LIST VIEW DETAIL VIEW ID ...

project = "SIS" and Sprint in(openSprints()) and type not in (Feature) ORDER BY Rank ASC

☐	Type	Key	Summary	Sprint	Story point estimate	Done Criteria	Assignee
☐	☒	SIS-3	Create user stories for Student	SIS Sprint 2	3	User stories created for Student features.	Unassigned
☐	☒	SIS-20	Admin - View Student Transcripts	SIS Sprint 2	3	Admin can view any student's transcript.	Ryan
☐	☒	SIS-31	Create routers for Admin	SIS Sprint 2	8	Router endpoints are created and returns 200 response when called.	Than
☐	☒	SIS-68	Catalog Management - Move course creation up one level	SIS Sprint 2	3	Create course button lives outside of catalog year.	Unassigned
☐	☒	SIS-34	Admin can edit course catalog	SIS Sprint 2	3	The finalized course catalog is saved and visible to students and professors.	Mart
☐	☒	SIS-35	Admin can remove a course section from catalog	SIS Sprint 2	3	The finalized course catalog is saved and visible to students and professors.	Mart
☐	☒	SIS-67	Admin can add new course section to a catalog	SIS Sprint 2	5	Course section displays in the catalog.	Loc
☐	☒	SIS-32	Admin can view user profiles	SIS Sprint 2	2	User id should be a hyperlink that takes admin to user profile page.	Unassigned
☐	☒	SIS-19	Admin can suspend user account	SIS Sprint 2	3	* After suspending user account, the suspended account should not be able to log into the system. * Upon login...	Unassigned
☐	☒	SIS-26	Admin can reinstate a suspended account	SIS Sprint 2	1	* After reinstating user account, the reinstated account should be able to log into the system.	Unassigned
☐	☒	SIS-64	Professor can enter grades for students	SIS Sprint 2	3	* System reflects student's grade on screen.	Loc
☐	☒	SIS-62	Professor can add a student to a class	SIS Sprint 2	3	* System adds students to my class.	Unassigned
☐	☒	SIS-63	Professor can drop a student from a class	SIS Sprint 2	2	* System removes student from course roll.	Unassigned
☐	☒	SIS-65	Professor can view past grades for a student	SIS Sprint 2	3	* System displays student's class history.	Unassigned
☐	☒	SIS-61	Professor can view class roll with grades	SIS Sprint 2	3	* System displays table of all students enrolled for a given class	Unassigned

+ Create 15 of 15

Sprint 2 Before Sprint Checklist

- ☐ ~~Identify top 5 risks at the beginning of each of the three simulated sprints.~~
- ☐ ~~Define sprint goals.~~

Identify top 5 risks

1. Catching up on incomplete work from previous sprint can delay Professor stories from starting.
2. User stories might not be sized appropriately. Points may change when work begins. This may also cause work to rollover.
3. Scope creep can impact committed items from completing.
4. Not communicating UI design intent can cause misunderstanding, incorrect implementation, and rework.
5. Uncertainty and unknowns for personnels can impact commitment to deliver.

Sprint Goals

- Complete carryover work for Admin core functionality
- Deliver Professor core functionality

Stand Up

4/9/2025

- **Loc**
 - Created UI for professor portal
 - Add new course page, removed course list table
 - No impediments
 - Next 24: SIS-64
- **Ryan**
 - Finished SIS-20
 - Added data to test SIS-20
 - Test View Transcript
 - No impediments
 - Next 24: Pull from the backlog
- **Thanh**
 - Work on remaining Admin routers. Stubbed out all endpoints.
 - No impediments
 - Next 24: Do implementation of routers and stub out endpoints for Professor.
- **Eric**
 - Work on UI for SIS-34 and 35
 - Added ticket for SIS-75 to add catalog table
 - No impediments

- Next 24: Create data model for catalog

4/11/2025

- **Loc**

- Worked on SIS-67 frontend - “Create Course Section” UI. (Scrollable menu for selecting Course, Term and Academic Year).
- Block: Would like help creating frontend subtask under SIS-67.
- Next 24: Will work on SIS-64 frontend.

- **Ryan**

- No Update
- Next 24: Pull something from the backlog

- **Thanh**

- Was unavailable to work on task.
- Next 24: Will resume implementations of routers and stub out endpoints for Professor.

- **Eric**

- Working on UI for SIS-34 and 35
- Working on SIS-75 to add catalog table
- No impediments
- Next 24: Create data model for catalog

4/14/25

- **Thanh**

- Completed SIS-46 and SIS-43
- Next 24: Pull something from backlog

- **Loc**

- Working on SIS-64 and discuss with Ryan for how to create the UI for Student history
- Need help create subtask for user stories
- Next 24: Continue SIS-64

- **Ryan**

- Connected login page to professor portal

- Created drop-down menu to pick user role
- Next 24: Work with Loc for Student History UI.
- **Eric**
 - No updates
 - Next 24: Continue

4/15/25

- **Ryan**
 - Created a route for View Student History
 - Worked with Loc for student history UI
 - Modified file structure to support component-based programming
 - Next 24: Finish SIS-65
- **Loc**
 - Created “Student Academic History” Search page UI (SIS-78)
 - Creating “Student Grade Entry” form. (SIS-77)
 - Worked with Ryan for student history UI
 - Next 24: Will finish SIS-64
- **Eric**
 - Created catalog table
 - Created the router to work with the new table
 - Next 24: Finish router, and new UIs for courses and catalogs (now separate)
- **Thanh**
 - Kickstart SIS-32 Admin can view user profiles
 - Next 24: Continue working on SIS-32

4/16/2025

- **Ryan**
 - Complete SIS-65
 - Impediments: None
 - Next 24: SIS-61

- **Eric**
 - Added more data for courses, sections, prerequisites, and course catalog.
 - Completed UI for SIS-34 and SIS-35
 - Impediments: None
 - Next 24: SIS-19 and SIS-26
- **Loc**
 - Done SIS-77: Create Grade Entry System UI
 - Done SIS-64: Professor can enter grades for students.
 - Impediments: None
 - Next 24: will pull ticket from the backlog
- **Thanh**
 - Working on SIS-32.
 - Next 24: Continue with SIS-32.

○

Backlog Refinement Meeting

At the end of sprint 2 we decided to move the student functionality to the bottom of the backlog because we prioritized the delivery of core functionality for Admin and Professor as a minimum viable product (MVP). The incomplete user stories for admin features from the previous sprint was moved to the top of the backlog as high priority, and user stories for professors are second priority.

Sprint Review Meeting

At the end of this sprint, more data was added to the database and a new catalog table. Ability to enter grades, view user profiles, rework courses module. Admin is able to view courses and student grades.

Retrospective

What can be improved for the next sprint?

Start doing

- Be selective with items we bring into scope
- Update number to higher number if item is too big

- Split item into smaller tasks if it is too big

Stop doing

- N/A

Keep doing

- Dedicate 1 standup meeting to have backlog refinement
- Maintain 3-day scrum meetings during weekdays
- Continue to use Jira for backlog and sprint management
- Discuss the vision for the UI before implementing it

Burndown Chart

Projects / CSUF Student Information System / Reports

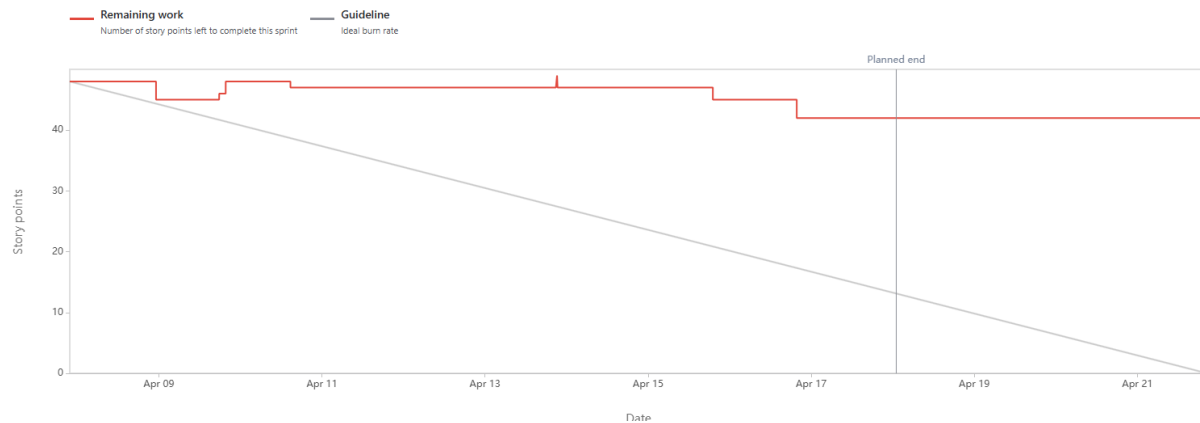
Sprint burndown chart

[How to read this report](#)

Sprint: Estimation field:

Date - April 7th, 2025 - April 18th, 2025

Sprint goal - Complete core Admin functionality. Deliver core Professor functionality (class roll management, grades, student history).



End of Sprint Checklist

- ☐ Refine release plan
- ☐ Record improvements made to the process
- ☐ Burn down

Sprint 3

Sprint Planning Meeting

Sprint 3 Planning Checklist

- ☐ Define the DONE criteria for top 10 user stories defined in your product backlog.
- ☐ Identify top 5 risks at the beginning of each of the three simulated sprints.

Done Criteria for top 10 user stories

Active Sprint ★ Filter details							
Basic JQL <code>project = "SIS" and Sprint in(3) and type not in (Feature) ORDER BY Rank ASC</code> 🔍 Go back to filter Save filter							
☐	Type	Key	Summary	Sprint	Story point estimate	Done Criteria	Assignee
☐		SIS-67	Admin can add new course section to a catalog	SIS Sprint 3	5	Course section displays in the catalog.	Loc Ng
☐		SIS-32	Admin can view user profiles	SIS Sprint 3	5	User id should be a hyperlink that takes admin to user profile page.	Thanh
☐		SIS-26	Admin can reinstate a suspended account	SIS Sprint 3	1	* After reinstating user account, the reinstated account should be able to log into the system.	Martin
☐		SIS-19	Admin can suspend user account	SIS Sprint 3	3	* After suspending user account, the suspended account should not be able to log into the system. * Upon login...	Martin
☐		SIS-62	Professor can add a student to a class	SIS Sprint 3	3	* System adds students to my class.	Unassi
☐		SIS-63	Professor can drop a student from a class	SIS Sprint 3	2	* System removes student from course roll.	Unassi
☐		SIS-61	Professor can view class roll with grades	SIS Sprint 3	3	* System displays table of all students enrolled for a given class.	Ryan F
☐		SIS-33	Admin can edit user profiles	SIS Sprint 3	3	* Admin can make edits to a user in the database.	Unassi
☐		SIS-69	Catalog Management - Admin should be able to view existing catalogs from Catalog Management screen	SIS Sprint 3	2	* UI with a list of existing catalog years. * Be able to click year, to display courses for the catalog year...	Unassi
☐		SIS-70	Catalog Management - Admin should be able to enter academic year when creating a new catalog	SIS Sprint 3	5	* Choose year for catalog * Be able to add courses from courses table to catalog table for year selected	Unassi

Sprint 3 Before Sprint Checklist

- ☐ Identify top 5 risks at the beginning of each of the three simulated sprints.
- ☐ Define sprint goals.

Top 5 Risks

1. User stories might not be sized appropriately. Points may change when work begins. This may also cause work to rollover.
2. Scope creep can impact committed items from completing.
3. Not communicating UI design intent can cause misunderstanding, incorrect implementation, and rework.
4. Uncertainty and unknowns for personnels can impact commitment to deliver.
5. Catching up on incomplete work

Sprint Goals

- Complete carryover work for Admin core functionality
- Complete carryover work for Professor core functionality

Note: Sprint Plan Update

Sprint 3 was impacted by Risk #4. Team members were unavailable to commit to project tasks and sprint targets. Based on the remaining days left for the assignment, we agreed to shorten Sprint 3 from 10 working days to 5 working days and reduced the number of user stories appropriate for the new time frame. New Sprint 3 dates: 5/5/2025 - 5/9/2025.

Stand Up

5/5/2025

- Team adjusted plan for Sprint 3. The team will continue with implementation for Admin and Professor functionality.

5/7/2025

- **Ryan**
 - Created Frontend for SIS-61, 62, 63
 - Added back button for easy navigation between professor portal and professor functionality
 - Impediments: None
 - Next 24: Finish SIS-62
- **Loc**
 - Done with SIS-67: Admin can create course section
 - Created a course list dropdown with actual courses.
 - Impediments: None
 - Next 24: Will work on remaining tickets. SIS-61
- **Eric**
 - Last 24: Done with SIS-19, Done with SIS-26
 - Impediments: None
 - Next 24: SIS-33
- **Thanh:**

- Last 24: Completed SIS-32
- Impediments: None
- Next 24: Work on SIS-63

5/9/2025

- **Eric**
 - Last 24: Done with SIS-33
 - Impediments: None
 - Next 24: End of sprint
- **Loc**
 - Last 24: Done with SIS-63. (Swapped tickets with Thanh)
 - Impediments: None
 - Next 24: End of sprint
- **Ryan**
 - Last 24: Done with SIS-62
 - Impediments: None
 - Next 24: End of sprint
- **Thanh**
 - Last 24: Swapped tickets with Loc. Completed SIS-61.
 - Impediments: None
 - Next 24: End of sprint

Backlog Refinement Meeting

For this sprint we will aim to fulfill all user stories and features for staff users (Admins and Professors). We have decided to abandon out of scope “nice to have” user stories for admins because of our time crunch. Although sprint 3 will be our last for this project, continuing the spring the core features and user stories for the student portal will be moved to the top for the next sprint.

Sprint Review Meeting

At the end of this sprint

- The admin was able to suspend, unsuspend and edit a user's profile (username, first name, last name, email and role).
- The professor was able to add/drop students to/from a class.

Retrospective

What can be improved for the next sprint?

Start doing

- Be selective with items we bring into scope
- Update number to higher number if item is too big
- Split item into smaller tasks if it is too big

Stop doing

- N/A

Keep doing

- Dedicate 1 standup meeting to have backlog refinement
- Maintain 3-day scrum meetings during weekdays
- Continue to use Jira for backlog and sprint management
- Discuss the vision for the UI before implementing it

Burndown Chart

Projects / CSUF Student Information System / Reports

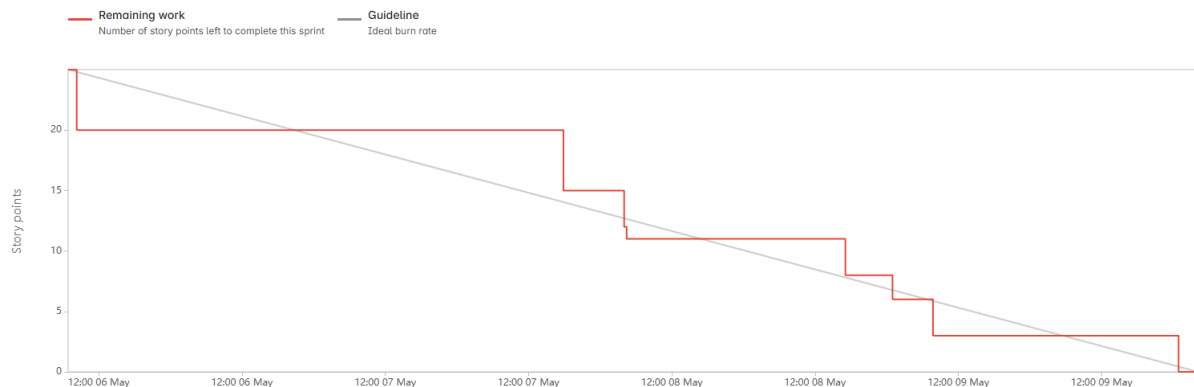
Sprint burndown chart

[How to read this report](#)

Sprint: Estimation field:

Date - May 5th, 2025 - May 9th, 2025

Sprint goal - Complete carryover work for Admin core functionality Complete carryover work for Professor core functionality



End of Sprint 3 Checklist

- ☐ ~~Refine release plan~~
- ☐ ~~Record improvements made to the process~~
- ☐ ~~Burn down~~

Closing Notes

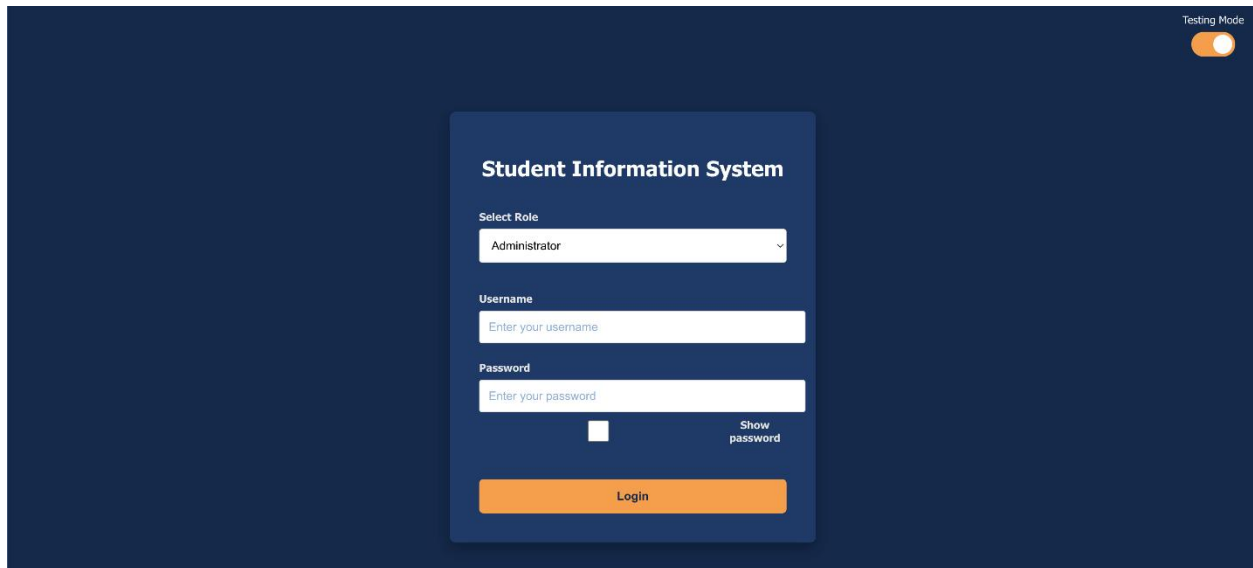
- CMMI: Throughout this project, our team applied several key practices from CMMI V1.3's PP and PMC. We estimated scope, effort and timelines, and identified risks at the start of each sprint. We monitored our work through standups, burndown charts and backlog refinements and adjusted plans when deviations occurred. These practices fulfilled many of the core objectives in CMMI V1.3's PP and PMC.
- Experience: This project gave us real-world experience in full stack development and Scrum based teamwork. We learned how to use the PERN stack (Postgres, Express, React, Node.js) and Supabase to develop and deploy a student information system. Throughout the project, we coordinated development tasks using Jira which helped us manage our backlog and track progress. By conducting Scrum ceremonies, which are planning, standups and retrospectives, we continuously improved our process by helping us reflect on team performance and refine our workflow. This project taught us the effectiveness of utilizing the backlog refinement meetings where we dedicated some time together to clarify and decompose higher priority backlog items. The benefits of having a structured approach have allowed us to break down a large project into manageable chunks.

Artifacts

- GitHub Repository (Public): <https://github.com/thanhtosaurus/student-info-sys>
- Jira Project (Request Access): <https://csuf-mse-2425.atlassian.net/jira/software/projects/SIS/summary>

Student Information System Screenshots

Login



Testing Mode

Student Information System

Select Role

Administrator

Username

Enter your username

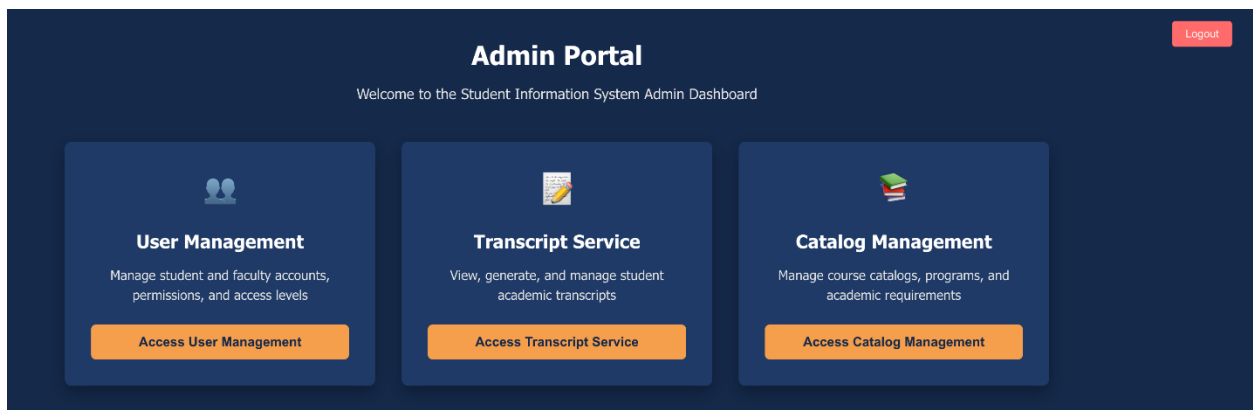
Password

Enter your password

Show password

Login

Admin Portal



Admin Portal

Welcome to the Student Information System Admin Dashboard

Logout



User Management

Manage student and faculty accounts, permissions, and access levels

Access User Management



Transcript Service

View, generate, and manage student academic transcripts

Access Transcript Service



Catalog Management

Manage course catalogs, programs, and academic requirements

Access Catalog Management

Admin – User Management

Users List

Add New User

	username	first_name	last_name	email	role	created_at	updated_at	user_status
View User Profile	tuser3	Test	Test Last	testuser3@gmail.com	professor	2025-04-03T04:39:39.859	2025-04-03T04:39:39.86	active
View User Profile	tuser4	Test	Test Last	testuser4@gmail.com	professor	2025-04-03T04:39:59.997	2025-04-03T04:39:59.997	active
View User Profile	tstudent1	Test	Test Last	teststudent1@gmail.com	student	2025-04-03T04:42:52.042	2025-04-03T04:42:52.043	active
View User Profile	tstudent2	Test	Test Last	teststudent2@gmail.com	student	2025-04-03T04:45:08.154	2025-04-03T04:45:08.154	active
View User Profile	erodriguez	Edwim	Rodriguez	erodriguez@csu.fullerton.edu	professor	2025-04-04T04:15:31.225	2025-04-04T04:15:31.225	active
View User Profile	emartinez1	Eric	Martinez	emartinez1@csu.fullerton.edu	student	2025-04-04T04:24:15.716	2025-04-04T04:24:15.716	active
View User Profile	emartinez2	Eric	Martinez	emartinez2@csu.fullerton.edu	student	2025-04-04T04:24:30.48	2025-04-04T04:24:30.48	active
View User Profile	emartinez3	Eric	Martinez	emartinez3@csu.fullerton.edu	student	2025-04-04T05:00:07.794	2025-04-04T05:00:07.794	active
View User Profile	rpham	Ryan	Pham	rpham@csu.fullerton.edu	student	2025-04-08T03:15:50.511	2025-04-08T03:15:50.511	active
View User Profile	tuser	Test	Test Last	testuser@gmail.com	professor	2025-04-03T04:31:09.829	2025-04-03T04:31:09.829	inactive
View User Profile	emartinez	eric	martinez	eric4mtz4@csu.fullerton.edu	student	2025-04-03T04:14:04.340176	2025-04-03T04:14:04.340176	active
View User Profile	tuser1	Test	Test Last	testuser1@gmail.com	professor	2025-04-03T04:33:15.754	2025-04-03T04:33:15.756	inactive
View User Profile	ljames	Lebron	James	ljames@gmail.com	student	2025-04-03T04:34:25.467	2025-05-10T01:20:58.14	active

Add New User

Role:

Select Role

First Name:

Last Name:

Username:

Generate

Password:

Show

Email:

Back

Add User

Admin - Transcript Service

View Student Transcript

Enter the student ID to view their transcript

Student ID

Search Transcript

View Student Transcript

Enter the student ID to view their transcript

Student ID

Student Transcript

ID: 83fef30f-e93e-4ba5-bd64-f7bd84aa1b1a

Name: Ryan Pham

Email: rpham@csu.fullerton.edu

Course	Term	Year	Grade	Units	Professor
CPSC-545	fall	2025	A	3	Ryan

Admin - Catalog Management

- Add New Course, Edit Course Info, Create Course Section, Delete Sections, View Course Catalog

[← Back to Admin Dashboard](#)

Catalog Management

[Create Course Catalog](#)

[← Back to Catalog Management](#)

Select Academic Year

2025

2026

Catalog Management - 2025

Add New Course

Edit Course Info

Create Course Section

Delete Sections

View Course Catalog

Catalog Year: 2025

Add New Course

Course Code:

e.g., CPSC 120

Course Name:

e.g., Programming Fundamentals

Description:

Enter course description

Units:

Enter number of units (1–6)

Term:

Select term

Back

Add Course

Edit Course Info

Code	Title	Description	Units	Term	Year	Action
CPSC-545	Software Design & Architecture	Software Design & Architecture	3			Edit
CPSC-546	Modern Software Mana	Modern Software Management	3	Select term	2025	Save Cancel
CPSC-441	Advanced Programming I	Advanced Programming I	3			Edit
CPSC-442	Advanced Programming II	Advanced Programming II	3			Edit

Back

Create Course Section

Course:

Select a course



Term:

Select a term



Year:

Select a year



Section Number:

Location:

Maximum Enrollment:

Back

Add Section to Catalog

[← Back to Catalog Management](#)

Delete Sections

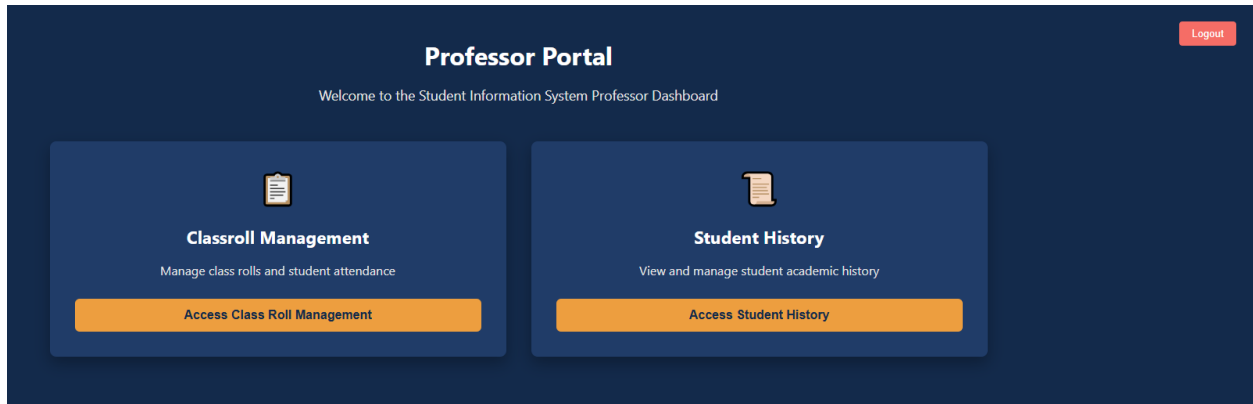
Code	Title	Description	Units	Term	Year	Action
CPSC-545	Software Design & Architecture	Software Design & Architecture	3			Delete
CPSC-546	Modern Software Management	Modern Software Management	3			Delete
CPSC-541	System and Software Standards	System and Software Standards	3			Delete
CPSC-544	Advanced Software Process	Advanced Software Process	3			Delete
CPSC-441	Advanced Programming I	Advanced Programming I	3			Delete
CPSC-442	Advanced Programming II	Advanced Programming II	3			Delete

[Back](#)

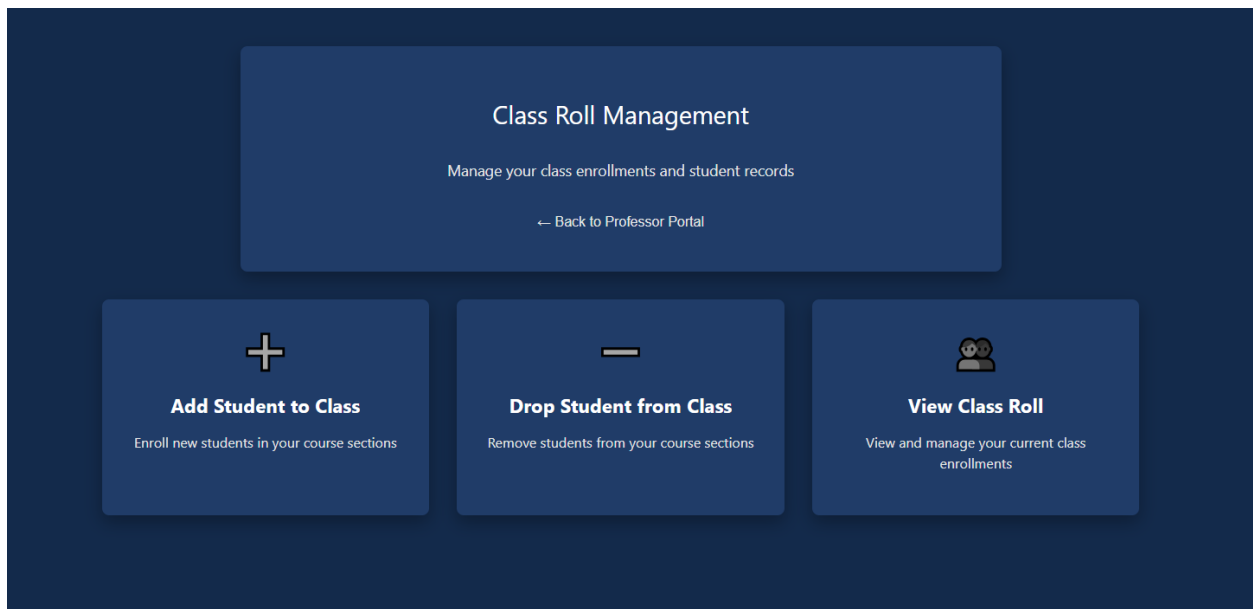
Course Catalog

Course Code	Course Name	Description	Credits	Prerequisites
CPSC-545	Software Design & Architecture	Software Design & Architecture	3	active
CPSC-546	Modern Software Management	Modern Software Management	3	active
CPSC-541	System and Software Standards	System and Software Standards	3	active
CPSC-544	Advanced Software Process	Advanced Software Process	3	active
CPSC-444	Intro to Software Engineering	Intro to Software Engineering	3	active
CPSC-441	Advanced Programming I	Advanced Programming I	3	active
CPSC-442	Advanced Programming II	Advanced Programming II	3	active

Professor Portal



Class roll Management



Add Student to a class

Add Student to Class

[← Back to Class Roll Management](#)

Course Code

Enter Course Code (e.g., CPSC 541)

Section

Enter Section Number

Student ID

Enter Student ID

Add Student to Class

Drop Student from a class

Drop Student from Class

[← Back to Class Roll Management](#)

Course Code

Enter Course Code (e.g., CPSC 541)

Section

Enter Section Number

Student ID

Enter Student ID

Drop Student from Class

View Class Roll

View Class Roll

[← Back to Class Roll Management](#)

Course Code

Enter Course Code (e.g., CPSC 541)

Section

Enter Section Number

View Class Roll

References

Highsmith, Jim. *Agile Project Management*. 2nd ed., Addison-Wesley Professional, 2009.

"Scrum Training Series." *YouTube*, uploaded by Michael James, 28 Sept. 2018,

www.youtube.com/watch?v=5Ty-

WC4gLto&list=PLD2BMPY5WcfAYTEYXW0NGxodOi1PLC1XN.