

Coplan - College Planner

Goal

The main goal of the app is to help manage a college student's course load by keeping track of amount of time (or lack thereof) put towards one course in relation to the others, and provide reminders of upcoming events

And collaborative, course-specific calendars.

Gather Requirements

- System must allow users to join a class with other classmates
- System must allow users to manage and track assignment due dates and test/quiz dates on a calendar.
- System must allow the users of a class to share a synchronized calendar of events.
- System must display a simple overview of all of the user's classes, showing upcoming events.
- System must notify and remind users of upcoming events at arbitrary intervals.
- System must allow users to create public events that are shared among all users of the class, along with private events that are not shared among other users.
- System must allow users to set an expected minimum number of hours per week that the user predicts they should spend studying or working for each particular course.
- System must allow users to keep track of the number of hours they study for a particular class by adding the amount of hours they've spent studying
- System must provide users with a "stopwatch" system to automatically add hours to their hours count.
- System will notify users if they aren't meeting their expected minimum number of hours spent studying.
- System must provide users with a todo-list tracking system, that can be used on a per-class basis, or a system-wide basis.

Describe the Application (How does the user accomplish a particular goal with our application?)

- UC
 - Title: User creates the CSC-445 class
 - Actor: User
 - Scenario:
 - User logs in
 - User begins registering for a new class
 - User searches for the class with the query “CSC-445”
 - Query returns no matching results
 - User indicates that they’d like to create the class
 - User specifies class name, class department, and class number
 - User saves class
 - User registers for the newly created class
 - System displays list of available sections (none yet)
 - User creates a new section
 - User specifies the days, times, and the teacher
 - User saves section
 - User joins the newly created section
- UC
 - Title: User joins the CSC-445 class
 - Actor: User
 - Scenario:
 - User logs in
 - User begins registering for a new class
 - User searches for the class with the query “CSC-445”
 - Query returns a list of possible matches
 - User registers for the class “CSC-445”
 - System displays list of available sections
 - User joins the section
- UC
 - Title: User schedules midterm event for CSC-445
 - Actor: User
 - Scenario:
 - User logs in
 - User begins creating a new event
 - User specifies the name of the event as “Midterm 1”
 - User specifies the event is for the class CSC-445
 - User specifies the date/time of the event
 - User specifies that the event is public
 - User saves event
- UC
 - Title: User checks the status of their classes
 - Actor: User
 - Scenario:
 - User logs in
 - User is presented with class overview, showing the status of each class
- UC
 - Title: System notifies users of imminent midterm
 - Actor: System
 - Scenario:
 - Today's date is 7 days prior to the scheduled midterm

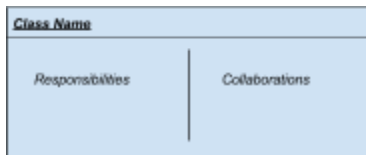
- System sends notifications to subscribers
- UC
 - Title: User logs 3 study hours to CSC-445
 - Actor: User
 - Scenario:
 - User logs in
 - User begins adding hours process
 - User specifies the length of time as “3 hrs”
 - User specifies the class as CSC-445
 - User submits
- UC
 - Title: User studies CSC-445 for 3 hours
 - Actor: User
 - Scenario:
 - User logs in
 - User declares that they are going to start studying
 - User studies CSC-445 for 1 hour
 - System asks user if they’re still studying, user answers that they are
 - User studies CSC-445 for 1 hour
 - System asks user if they’re still studying, user answers that they are
 - User studies CSC-445 for 1 hour
 - User declares that they are finished studying
 - User hours are automatically logged for the CSC-445 class

Identify the Main Objects

- Main Use-Case Nouns:
 - User
 - Event
 - Class
 - Section
 - Classmates
 - Calendar
 - Hours Log
 - Todo-list
 - Notification

Describe the Interactions

- Pick out the **verbs** from the use cases
- CRC Cards
 - C: Class Name
 - R: Responsibilities
 - C: Collaborators



Create a Class Diagram