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## Web App Plan

**Potential Submission Feature:** Checkpoint Submissions – Students can upload “snapshots” of their code at certain intervals or checkpoints. This allows for early feedback and iterative development while also discouraging last-minute cramming of assignments.

### Requirements

#### Actors

- Student
- Instructor
- Admin

#### User Stories

- As an instructor, I want to create courses so I can organize students and assignments
- As an admin, I want to create instructor accounts and configure their settings to follow policy
- As an instructor, I want to create assignments with multiple problems, problem descriptions, milestones, a rubric, and deadlines.
- As a student, I want to see a dashboard that shows my upcoming deadlines and progress on my assignments
- As a student, I want to open an assignment, code directly in the browser via an integrated editor, run tests, and submit
- As a student, I want to upload multiple checkpoint submissions before the deadline before submitting a final solution
- As an instructor, I want to view all checkpoint and final submissions, see the differences between them, and grade/leave feedback.
- As a student, I want to view feedback on checkpoints and final submissions
- As an instructor, I want to see flags for potential plagiarism
- As an instructor, I want to post announcements that can be viewed by all students in the respective course
- As a student, I want to see all posted announcements from my instructors

### Site Map

- Login
- Dashboard
  - Student dashboard
  - Instructor dashboard
  - Admin dashboard
- Course page
  - Syllabus
  - Announcements
  - Student roster
  - Assignments list

- Assignment page
  - Assignment overview/description
  - Problems list
  - Deadlines
- Problem page
  - Problem description
  - Integrated IDE
  - Submission options (checkpoint/final)
  - Submission history
- Submissions and feedback
  - Submission viewer
  - Checkpoint difference viewer
  - Inline/general feedback
- Grading console
  - Submission list
  - Submission viewer
  - Difference view
  - Inline comments
  - Rubric scoring
  - Plagiarism flags
- Course management
  - Create/edit assignments
  - Set deadlines and milestones
  - Set rubrics
- Admin tools
  - User management
  - System settings
  - Permissions

## **Wireframes**

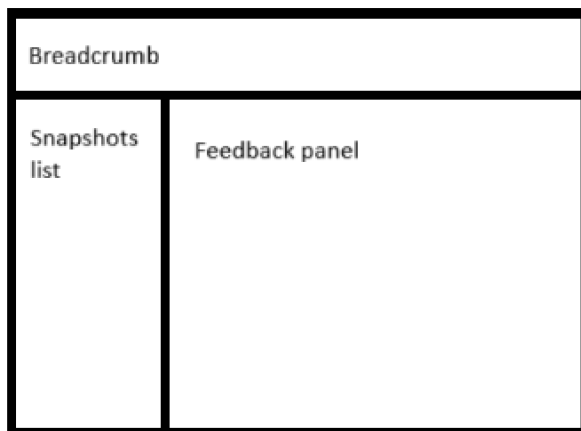
# Student Dashboard

Logo <span>Notifs</span> <span>profile</span>		
Courses Calendar	Upcoming assignments: - Card 1 - Card 2 - etc.	Quick Stats - Progress - Grades

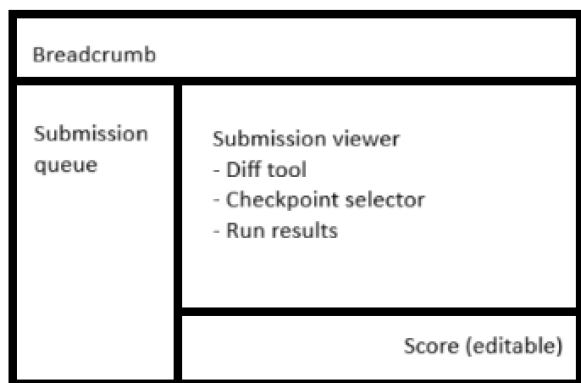
## Problem page

Breadcrumb	
Problem description	IDE - Editor/terminal
	Submission options/details

## Submission Viewer



## Grading console



## Relationships

