CME Commitment to Change

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Mentor: Jake Dibble
Client: Kurt Snyder

Business Requirements

- **Motivate and enable clinicians to make and keep commitments.**
  - Positive change in the medical field.
  - Impact to change through publicity!

- **Enable CME providers to measure the relative effectiveness of their courses through the commitments made by the students they teach.**
  - Comparing CME courses.
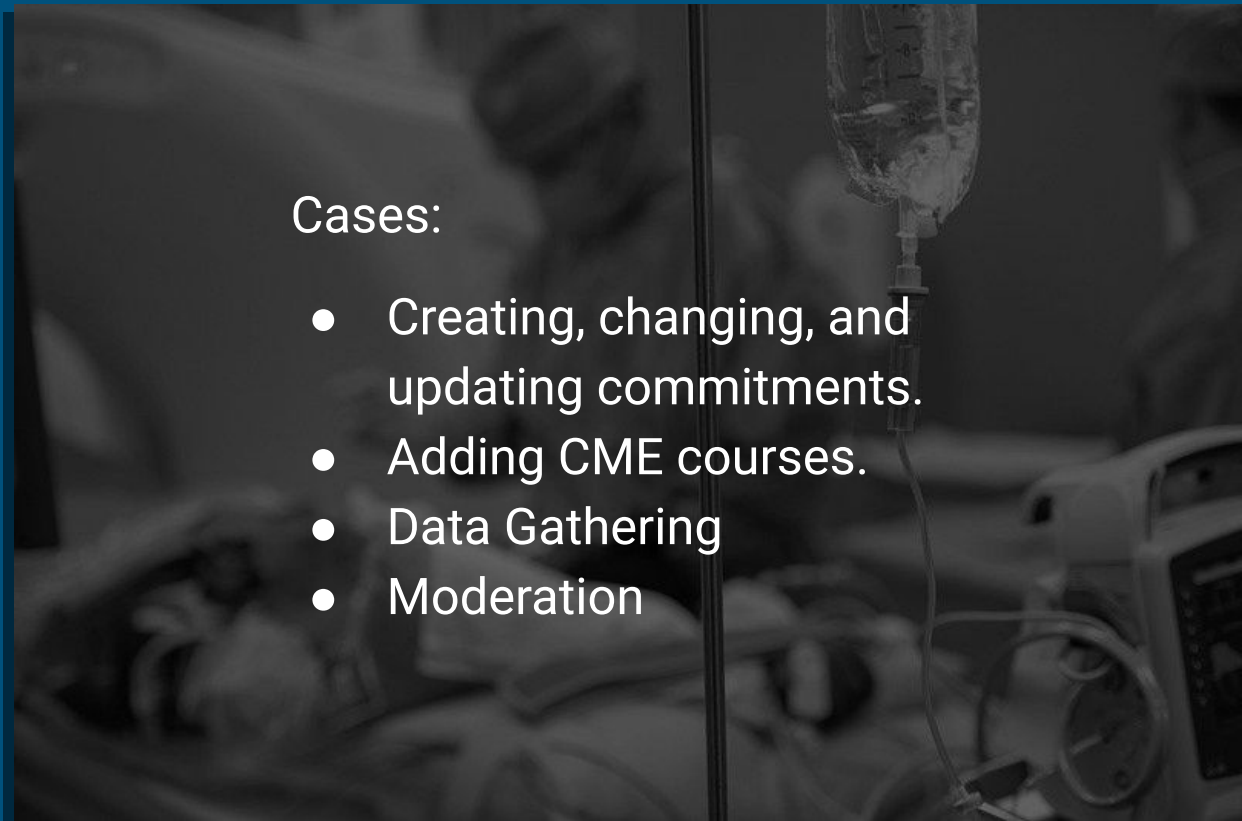 - Improvement to all CME courses.

Use Cases

Actors:

- Clinicians
- CME Providers
- CME Educators
- Administrators

Cases:

- Creating, changing, and updating commitments.
- Adding CME courses.
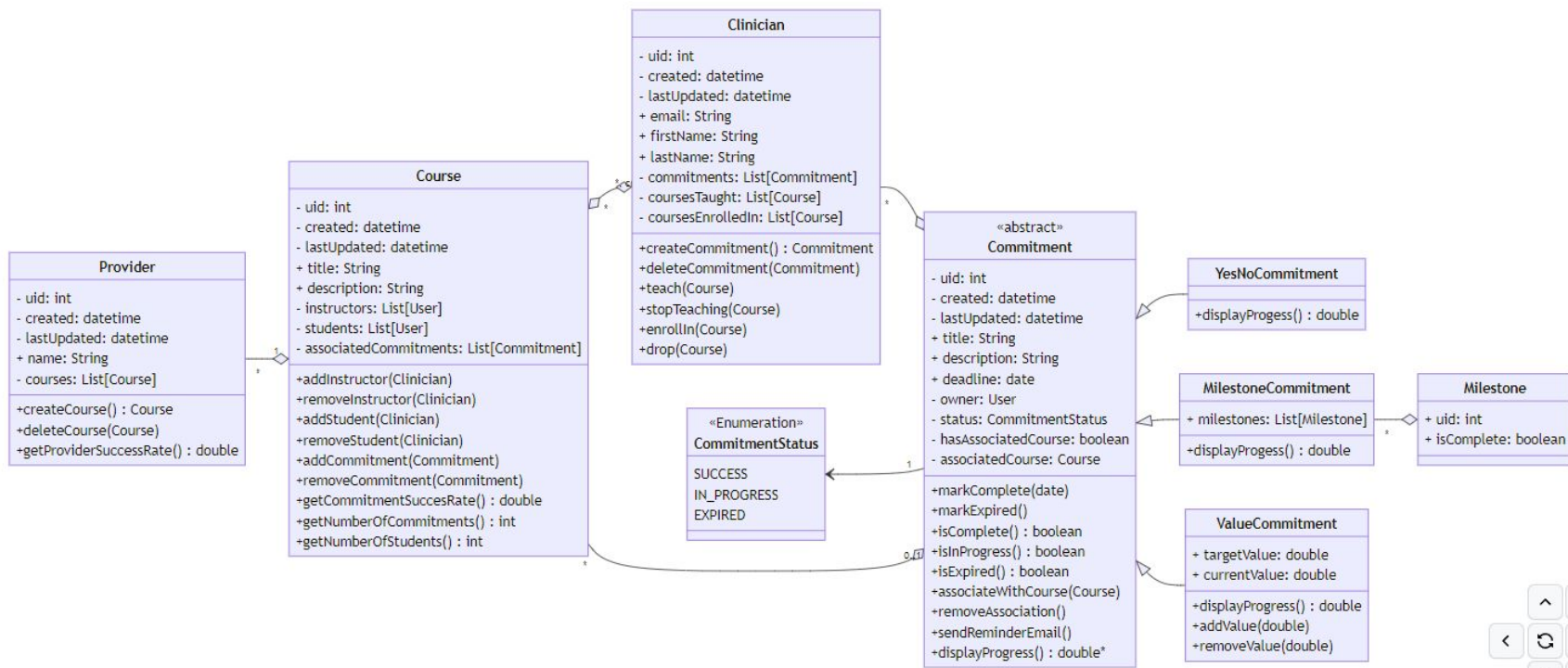- Data Gathering
- Moderation

Requirements

Functional:

1. Platform based
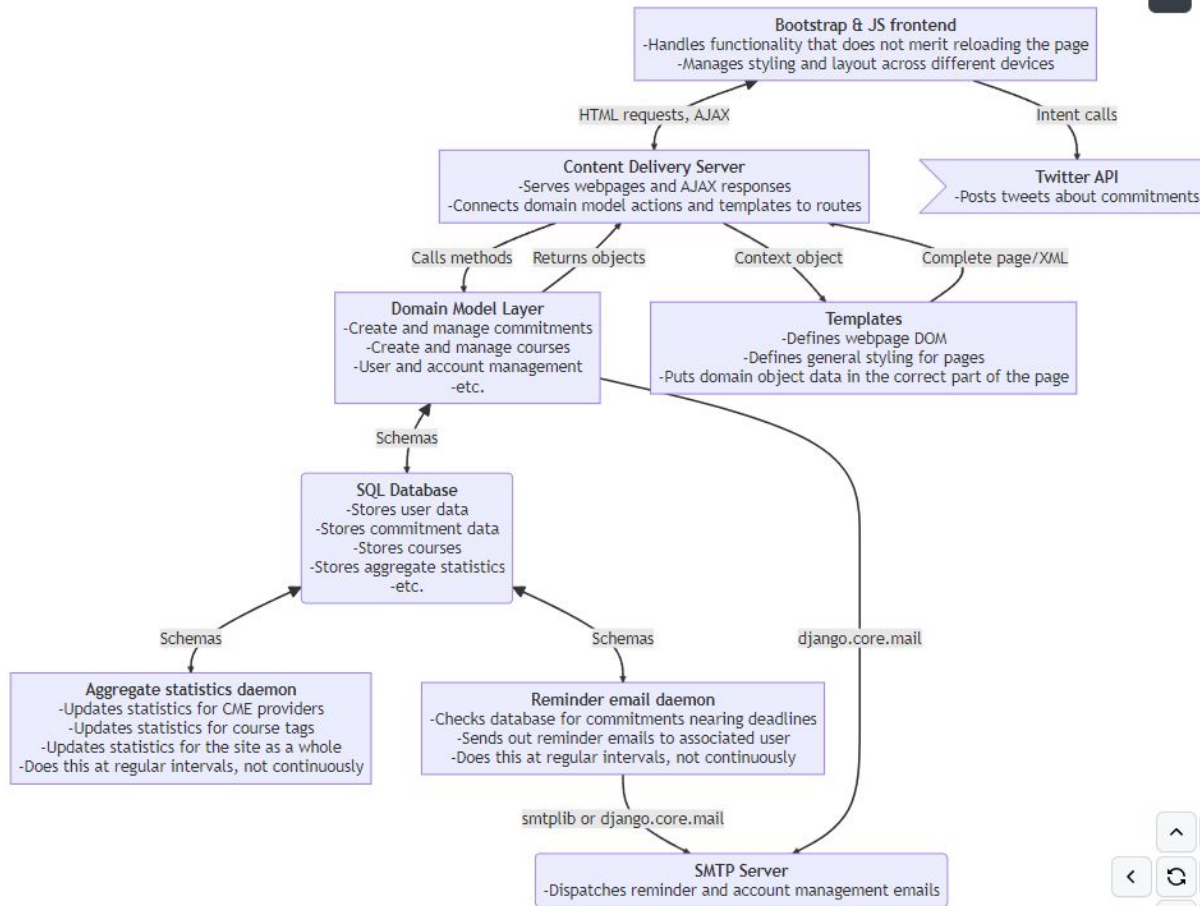2. Commitments
3. Courses
4. Gamification and Social Elements

Non-Functional:

1. Cloud Services
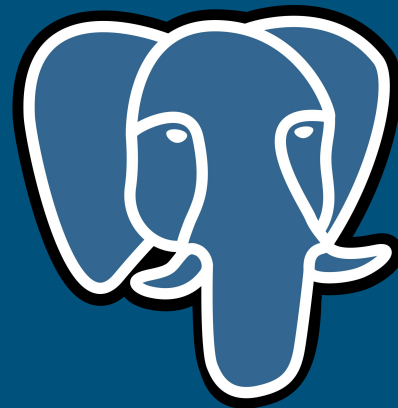2. Scalability
3. Modularity
4. Accessibility

Domain Model

Architecture

Bootstrap & JS frontend
-Handles functionality that does not merit reloading the page
-Manages styling and layout across different devices

HTML requests, AJAX

Intent calls

Content Delivery Server
-Serves webpages and AJAX responses
-Connects domain model actions and templates to routes

Twitter API
-Posts tweets about commitments

Calls methods   Returns objects   Context object   Complete page/XML

Domain Model Layer
-Create and manage commitments
-Create and manage courses
-User and account management
-etc.

Templates
-Defines webpage DOM
-Defines general styling for pages
-Puts domain object data in the correct part of the page

Schemas

SQL Database
-Stores user data
-Stores commitment data
-Stores courses
-Stores aggregate statistics
-etc.

Schemas

Schemas

django.core.mail

Aggregate statistics daemon
-Updates statistics for CME providers
-Updates statistics for course tags
-Updates statistics for the site as a whole
-Does this at regular intervals, not continuously

Reminder email daemon
-Checks database for commitments nearing deadlines
-Sends out reminder emails to associated user
-Does this at regular intervals, not continuously

smtplib or django.core.mail

SMTP Server
-Dispatches reminder and account management emails

Tech Stack

What didn't make it into the tech stack (interesting slide)

Prototype Link:

Prototype Presentation link

https://www.figma.com/proto/pi2Ydgt5OfaNCFoo20qA4S/Prototype?page-id=92%3A149&type=design&node-id=111-436&viewport=1233%2C842%2C0.17&t=NybRLtEbbhUQyGtB-1&scaling=scale-down&starting-point-node-id=111%3A436&mode=design

Prototype: User and Commitments

User Dashboard

Dashboard | Nav menu | ☰ Avatar

👤 User Name

Courses

Course 1 | Course 2

Completed:

Completion Rate

Achievements

Current Commitments

New Commitment

Commitment

Progress

Commitment

Progress

Commitment

Commitment Page

Dashboard | Nav menu | ☰ Avatar

Commitment Name

Progress: ✎

Started: September 15th ✎
Due: October 15th

7 days left

This is the commitment description where the commitment will be described in detail ✎

Comments

Write comment | Post

Share your commitment to change: 𝕏

Avatar **UserName**
Posted 10/5/2023

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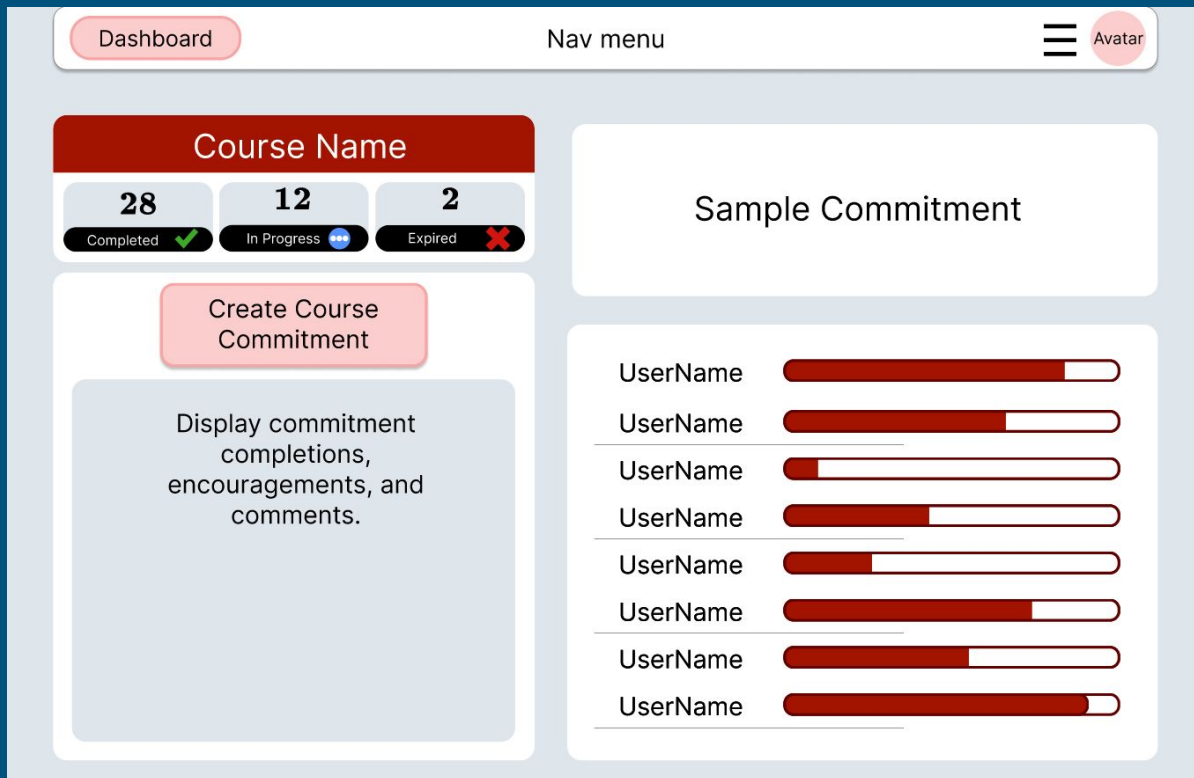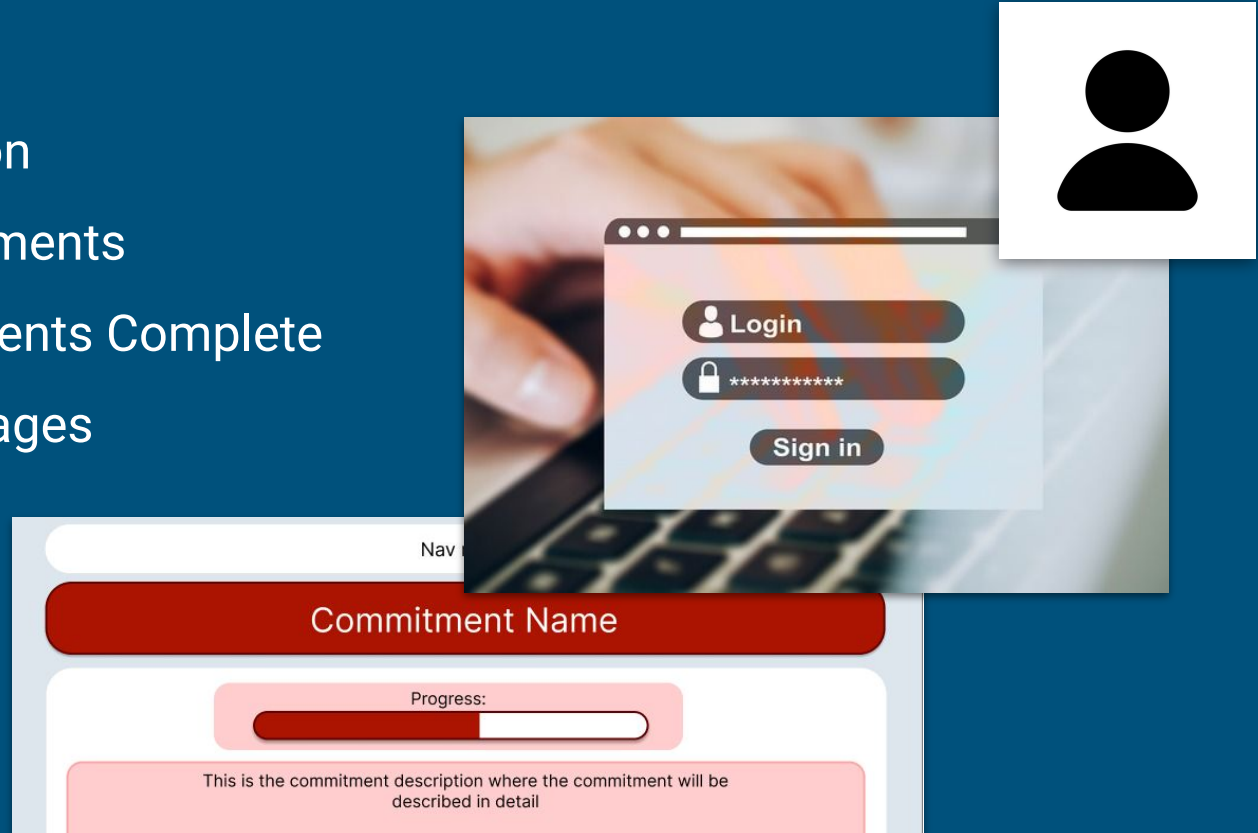
Avatar **UserName**
Posted 10/5/2023

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Prototype: CME Course Page

First Iteration Features

- User Registration

- Create Commitments

- Mark Commitments Complete

- Commitment Pages

Mentor feedback

- Advisements on tech stack.

- Gave helpful suggestions for SMTP servers.

- Recommended refining business requirements.

Client feedback

- Recommended changes to some requirement priorities.
  - Some requirements altered.
- Clarified the connection between CME providers and clinicians on the platform.
  - Slight changes to the prototype needed.
- Reaffirmed the importance of commitments.