

# EECS 3311 Project Iteration 1

## Group 5 (StudyLink)

### Team Members

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Github link: [https://github.com/chang-kevin/EECS\\_3311](https://github.com/chang-kevin/EECS_3311)

# Big Stories

## Iteration 1

Navigate through EECS courses	
As a student, I want to be able to navigate through the list of EECS courses.	
<b>Priority:</b> High	<b>Cost:</b> 4 days

Add study materials for EECS courses	
As a student, I want to be able to add study materials for EECS courses.	
<b>Priority:</b> High	<b>Cost:</b> 8 days

Login/Logout of Application	
As a student, I want to be able to login/logout of the application.	
<b>Priority:</b> High	<b>Cost:</b> 3 days

## Iteration 2

Updating study materials for EECS courses	
As a student, I want to be able to edit or remove the study materials that I have uploaded.	
<b>Priority:</b> High	<b>Cost:</b> 5 days

Account management for application	
As a student, I want to be able to manage my account like changing the password	
<b>Priority:</b> High	<b>Cost:</b> 3 days

Account management for application	
As a student, I want to be able to easily navigate through my dashboard where it shows all of the courses that I am currently taking.	
<b>Priority:</b> High	<b>Cost:</b> 4 days

The rating/reporting system was not implemented for the study materials in iteration 1. Iteration 1 was about releasing the product as early as possible with the most marketable features to get maximum revenue. The rating/reporting system is not our most marketable feature so if we had spent time to build that feature it would delay the release of our product. Also due to the time constraint, we had to prioritize and complete higher priority features. We plan to implement this feature in iteration 2.

## Updated Plan For Iteration 1

### Navigating through resources

Collection of Resources	
Access a collection of resources for specific EECS courses.	
Priority: high	Cost: 7 days

Display the courses	
Have a list of the courses available in EECS	
Priority: high	Cost: 2 days

Resource Navigation	
Navigate the resources by topics.	
Priority: Medium	Cost: 2 days

## Adding study materials

Upload study materials to the app
Upload study materials for EECS courses.

Rating the study materials	
Rate the study material from a scale of 1 – 5 based on how helpful it is to me	
Priority: Medium	Cost: 3 days

Reporting the study materials	
Report a study material if it violates the terms and conditions.	
Priority: Medium	Cost: 3 days

## Login/logout

<b>Sign Up</b>	
Create an account with email and password	
<b>Priority:</b> Medium	<b>Cost:</b> 3 days

<b>Login</b>	
Login into the account using email and password	
<b>Priority:</b> Medium	<b>Cost:</b> 3 days

<b>Forgot/change password</b>	
Change the password using email	
<b>Priority:</b> Medium	<b>Cost:</b> 3 days

## Development tasks assigned in iteration 1

Manasvi:

- Sign Up
- AddFile

Angela:

- ThirdYearCourses
- Dashboard

Yuvtesh:

- Userlist
- CourseList
- User
- Course


Ammiel:

- Login
- ForgotPassword

Kevin

- Dashboard
- CourseResources

## Dashboard skeleton picture as discussed by the group

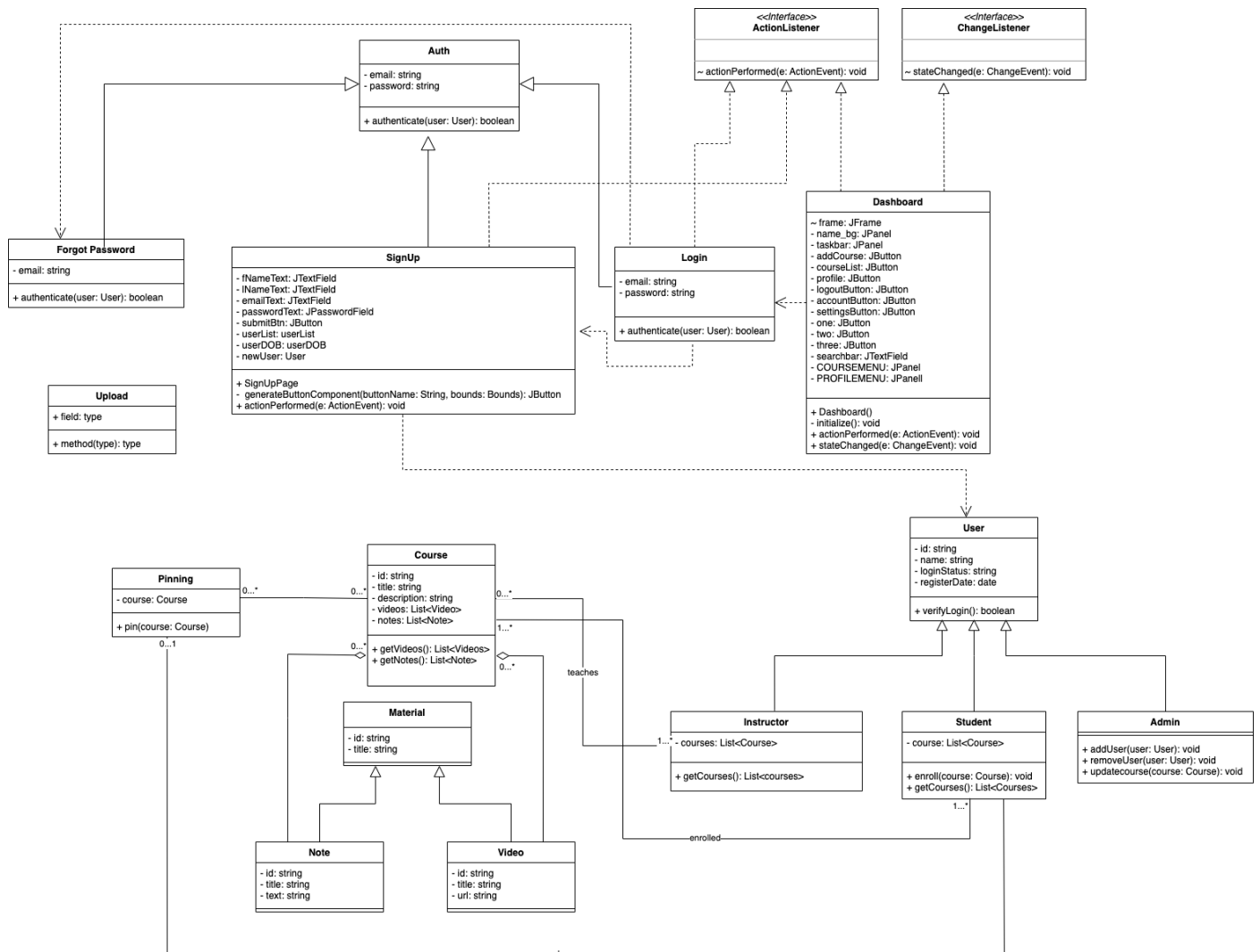
 upload	course list	search	profile
<p>pinned courses (empty space for now) no pinned courses for now</p>			

## Login Page

Login Page	
Username	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Change Password"/>	<input type="button" value="Login"/> <input type="button" value="Sign Up"/>



# Class Diagram



The User class for example represents a user with a username and password. It has getter methods to retrieve the username and password. The Login class takes a User object as input and performs the login action. It is also capable of redirecting the user to the forgot password page, and signup page. This example separates the data (User class) from the actions (Login/Logout/Signup) and follows the single responsibility principle where each class has a single, well-defined responsibility. In addition, it promotes loose coupling between classes, allowing for easier maintenance and additions in the future.

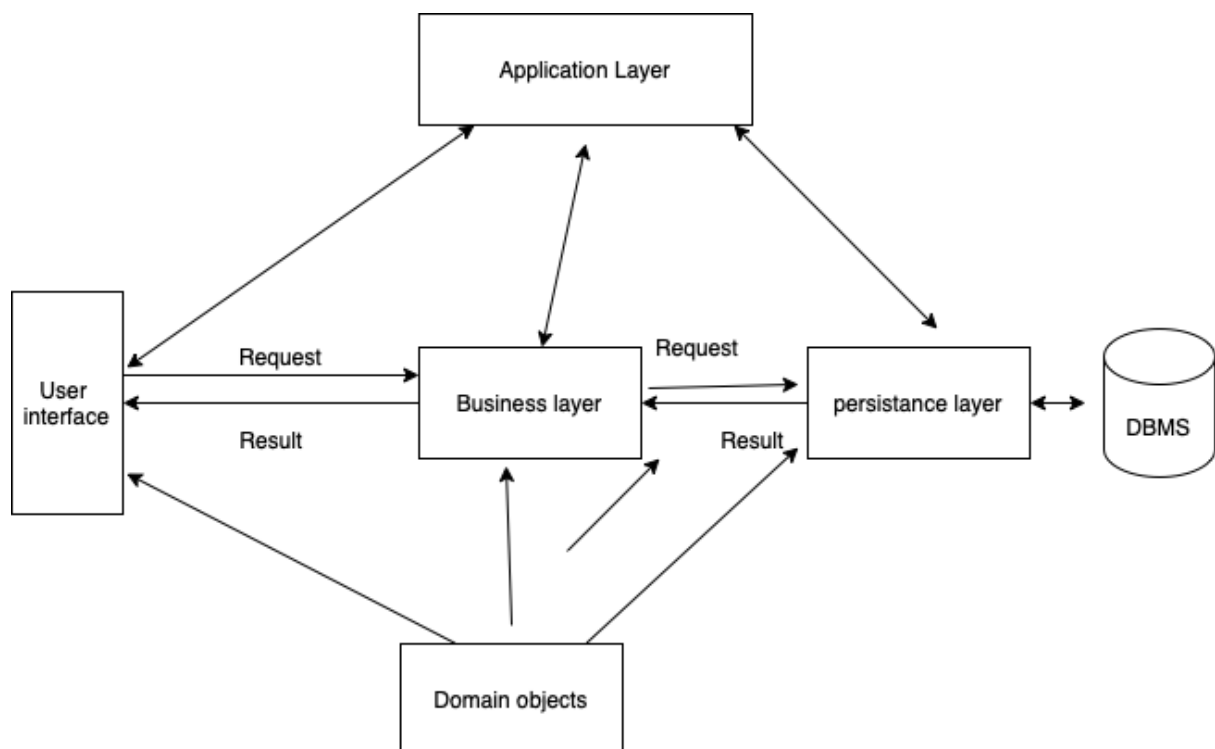
# Platform Architecture

In this diagram, the arrows represent the flow of data and requests between the components of the platform.:

- The user is able to access the platform through the front-end/UI.
- The front-end then sends requests to the backend for data, such as course materials or user information.
- The backend retrieves the data from the database through the persistence layer, and returns it to the front-end.
- The front-end may also request data from a content delivery network (CDN) to reduce the load on the backend and improve load times for the user.
- The backend handles the user authentication through the authentication component

The Business Layer is responsible for implementing the business logic of the application. It sits between the frontend and backend where all the complex calculations, data processing and other business-related tasks are performed. The classes AddFile and ThirdYearCourses which are responsible for collecting the study materials organised for the students to conveniently have an archive for specific topics.

The Domain objects represent the entities in the platform, such as a User, or a Course. These objects wrap around the data and behaviour of the entities and provide a way to interact with the data.



The Persistence layer is responsible for storing and retrieving data from the database by providing an interface to the Business Layer for accessing and manipulating data. In our platform, this maps to the UserList and CourseList classes where UI classes are able to retrieve information via these classes.