<Tutify> Release 1

Team members

Name and Student id	GitHub id	Number of story points that member was an **author** on.
Claudia Feochari (40000060)	**compgirl123**	11 points
Cynthia Cherrier (40005808)	Cynthiac3	13 points
Jasmine Latendresse (40011419)	jaslatendresse	13 points
Tanya Multani (40008542)	tanyamultani	8 points
Bilal Nasir (40015010)	bilal101	13 points
Kasthurie Paramasivampillai (40025088)	kasthurie	11 points
Pierre Watine (40027675)	PWatine	11 points

Project summary

Tutify is a web-based application that revolutionizes the way tutors and teachers interact with their students by providing them a more enhanced interactive learning experience. Unfortunately, hiring private tutors can be pricey for some parents and/or hard to find for specific courses. This application offers a solution; centralizing all tutors in a single place and rewarding them for tutoring courses that are the most in demand as well as providing students who could not afford traditional tutoring a more affordable way to have access to course material. The app also supports document sharing between tutors and tutees as well as document publishing for free exercises for the entire Tutify community. That's right! Just having an account gives free learning resources.

Risk

1. Data provided by students and tutors on the application (their names, their email addresses). This might be risky in the rare case that a data leak occurred but this would be mitigated by using an appropriate database encryption system that will ensure that the data is kept safe and only permitted users are able to access it.

2. Copyright Fraud is also an issue as we need to ensure that services that are implemented in our application do not conflict with other services that have been implemented by other tutoring companies.

3. As this is the first sprint, time and effort can be underestimated at the beginning. The estimation will be adjusted for future sprints depending on how the team is performing.

Legal and Ethical issues

1. If tutors want to sign up for our service, we will need to do a background check to verify their qualifications and history.

2. User data should be protected. The users of the web application should know who has access to their information and how the data is used. The users have rights to know if their information has been transferred to a third party.

3. Offensive content and inappropriate language is not permitted and will be considered as illegal, especially because the majority of the web app users will be children.

4. As mentioned in the list of risks, copyright is another legal issue. Copying content from other tutoring companies that already exist is prohibited.

Velocity

Project Total: X stories, X points over X weeks

Iteration 1 **(4 stories, 24 points)**

User story 1 - Account creation (8 points)
As a user, I want to be able to create an account and log in. 1- Account creation: - Username - Password - Email

- Level of education
- Program

2-Login
- Email
- Password

User story 2 - Search for Tutor (8 points)

As a user, I want to be able to search for an available tutor for a course.
Tasks:
- Create a welcome page with a search button to redirect to search page
- Create search page with space to display search results
- Implement search function that changes display dynamically with content queried from the database

Developer story 1 - Environment setup (5)

As a developer, I want to have a functional environment to run the application.
Tasks:
- Install react locally
- Set up the database

Developer story 2 - Continuous integration (3)

As a developer, I want to be able to automate the process for integration and deployment of the application.
Tasks:
- Integrate travis in our GitHub repo
- Setting up jasmine testing

Iteration 2 **(4 stories, 29 points)**

Developer Story 3 - Setting Up Hosting with Docker (5 points)

User Story 3 - Profile page for users (8 points)

User Story 4 - Enhanced Search for tutors (8points)

User Story 5 - Register as a student of a specific tutor, tutor can see their list of students (8 points)

Iteration 3, (**2 stories, 16 points)**

User Story 6 - Tutor upload files to your profile and to a specific student (8points)

User Story 7 - Tutor sharing files to groups of students enrolled in specific courses (8points)

Release 1 Total: X stories, X points over X weeks
Release 1 aka Iteration 4, (X stories, X points)

Iteration 5, (X stories, X points)

Iteration 6, (X stories, X points)

Iteration 7, (X stories, X points)

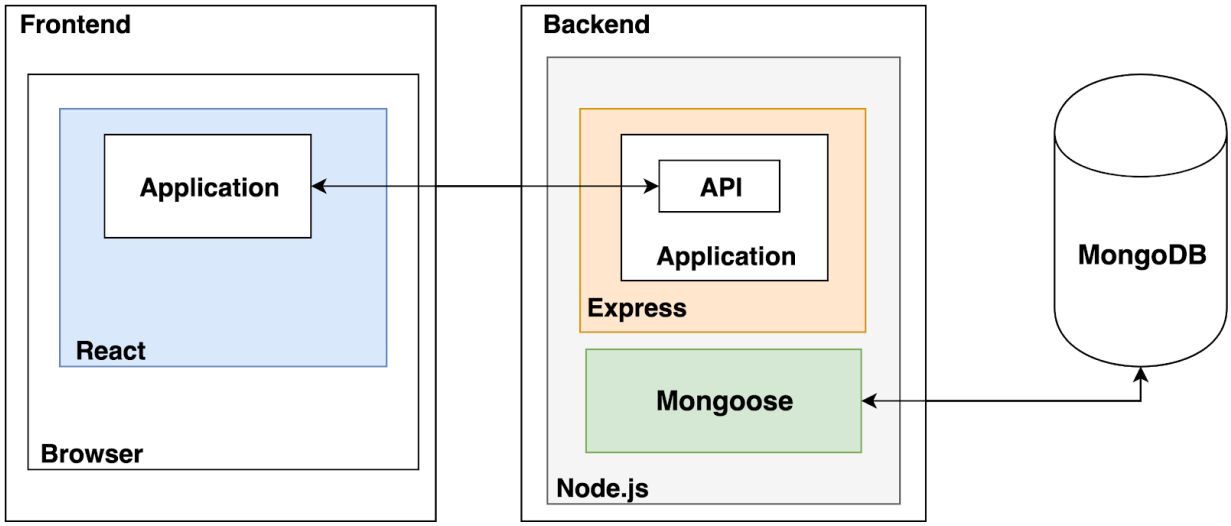
Release 2 Total: X stories, X points over X weeks
Release 2, Iteration 8, (X stories, X points)

...

Release 3 Total: X stories, X points over X weeks
Release 3, Iteration 13, (X stories, X points)

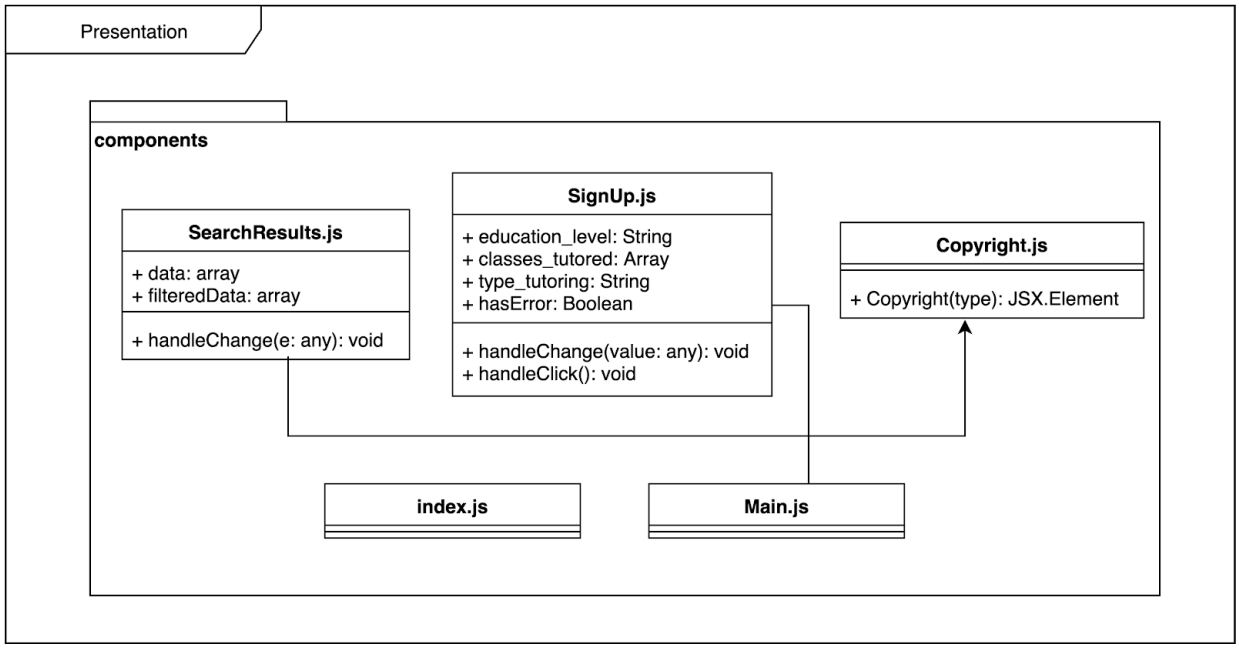
Overall Arch and Class diagram

High-level Architecture Diagram:

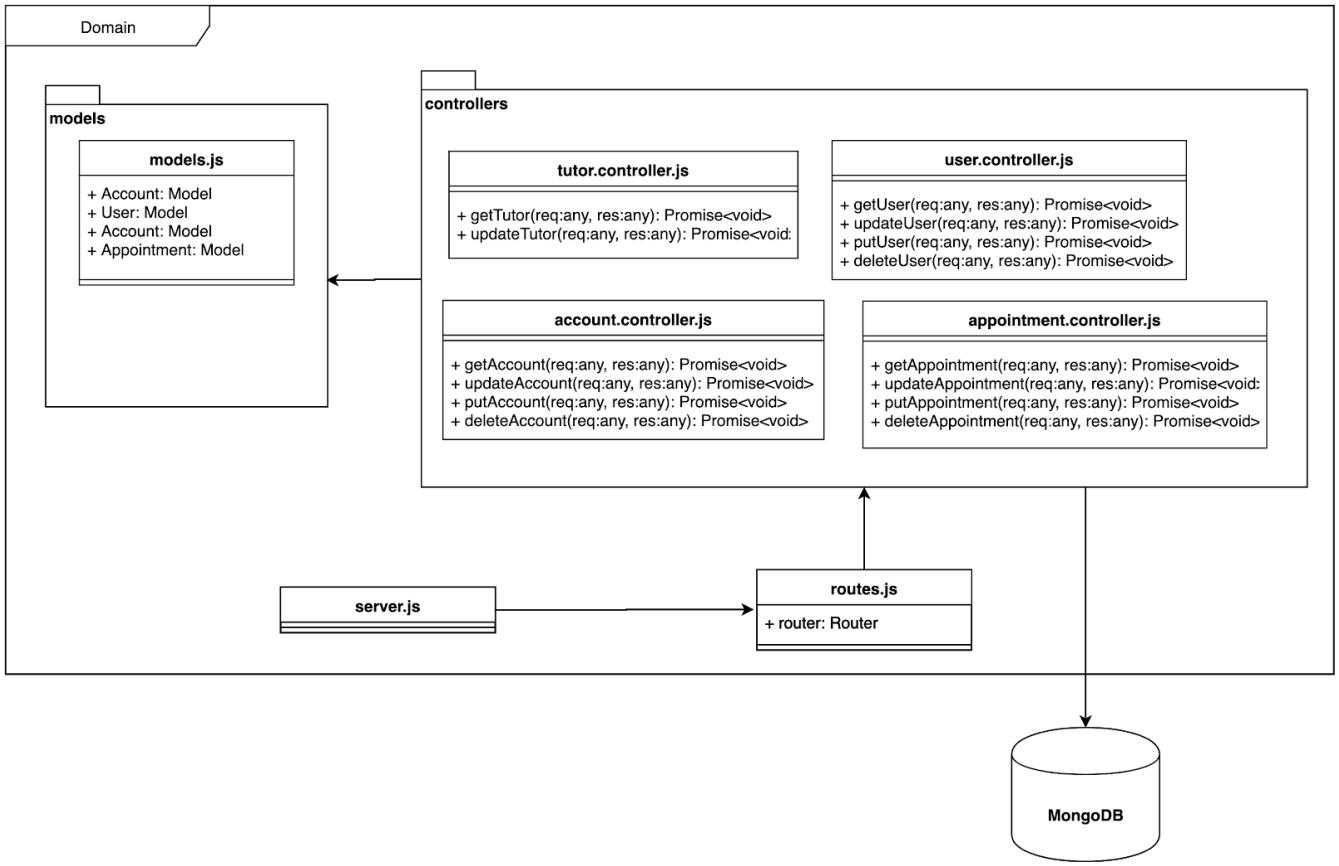


Class Diagram:

Presentation / Frontend Layer:



Domain / Backend Layer:



Infrastructure

React: the JavaScript library used for building user interfaces.
Node.js: the JavaScript run-time environment that we use for our backend server.
Express.s: a minimalist web framework for Node.js that we use for creating and running our web server with Node.
Mongoose: the MongoDB object modeling tool designed to work in an asynchronous environment.
MongoDB Atlas: for our fully-managed cloud database.
Jasmine: Testing framework for Javascript that we used for testing purposes.

Name Conventions

List your naming conventions or just provide a link to the standard ones used online.

We will use the Google JavaScript Style Guide.

Code

File path with clickable GitHub link	Purpose (1 line description)
https://github.com/compgirl123/TutifySoen490/blob/master/tutify/src/components/SignUp.js	This file corresponds to the Sign Up Page for students who are wishing to receive

	tutoring from specialized tutors teaching various school subjects and grade levels.
https://github.com/compgirl123/TutifySoen490/blob/master/tutify/src/components/SearchResults/SearchResults.js	This file corresponds to the search page for tutors. All the tutors are fetched from our database, and the user can search by name in the search bar which will dynamically filter the list of tutors.
https://github.com/compgirl123/TutifySoen490/blob/master/tutify/src/App.js	This file contains all the routes paths of the pages of the application.
https://github.com/compgirl123/TutifySoen490/blob/master/tutify/src/components/Main.js	This is the first page the user will see when he launches the application. It is the main page that contains links to other features.
https://github.com/compgirl123/TutifySoen490/blob/master/tutify/src/components/Database.js	This file contains the code which is the setup of our database used for our application.

Testing and Continuous Integration

Testing

List the **5** most important test with links below.

Test File path with clickable GitHub link	What is it testing (1 line description)
https://github.com/compgirl123/TutifySoen490/blob/master/tutify/spec/encryption-test.js	It tests the encrypt/decrypt string function.
https://github.com/compgirl123/TutifySoen490/blob/feature/ds2-signup-tests/tutify/spec/SearchPage-test.js	It tests the function that fetches all the accounts from the database. (non-functional so far).
https://github.com/compgirl123/TutifySoen490/blob/ds2-jasminetests/tutify/spec/jasmine-test.js	It tests that the users are currently present in the database as well as checks if the website is indeed up and running on localhost:3000.

Continuous Integration

Travis Continuous Integration: https://travis-ci.com/compgirl123/TutifySoen490

The continuous integration environment that was used was Travis-Ci. Travis Ci is a continuous integration service that can analyze projects directly linked on GitHub. It can analyze different branches present on the GitHub repository and is not limited to only analyzing the master branch. Travis detects code smells such as unused variables and other

variables that might break the code. Travis automatically builds and tests changes every time a new commit is added to a particular branch. Testing and development in Travis is done in small incremental quantities of code.

We currently only have one stage to our build, which runs the build and also execute our test using jasmine.