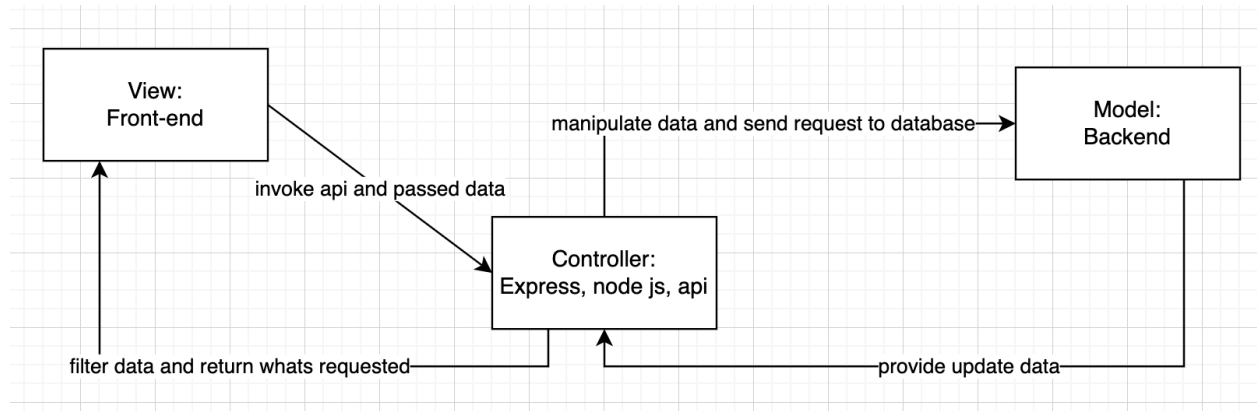


System Design Document

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Software Architecture Diagram



CRC Cards

Backend CRC cards

API name: question Url: GET http://127.0.0.1:8000/api/questions	
Required field: None	
Responsibilities: <ul style="list-style-type: none"> - Returns all the data related to each questions - Keeps tracks on the status of the question, which user are associated with it 	Collaborators: <ul style="list-style-type: none"> - userID

API name: question Url: POST http://127.0.0.1:8000/api/questions	
Required field: Title, status, talD, userID, body, bounty, date	
Responsibilities: <ul style="list-style-type: none"> - Create and track all the given data under a new question 	Collaborators:

API name: question Url: PUT http://127.0.0.1:8000/api/questions	
Required field: Question ID, and fields that needs to be change	
Responsibilities: <ul style="list-style-type: none"> - Find the questions with the given ID and update the data 	Collaborators:

API name: question Url: DELETE http://127.0.0.1:8000/api/questions/:id :	
Required field: Question ID	
Responsibilities: <ul style="list-style-type: none"> - Delete the question associated with this ID - Return the question ID 	Collaborators:

API name: setProfile Url: POST http://localhost:8000/api/profile	
Required field: Name:str ID:num	
Responsibilities: <ul style="list-style-type: none"> - Create a user with name and id 	Collaborators: <ul style="list-style-type: none"> - userID

API name: getProfile Url: GET http://localhost:8000/api/profile/id :	
Required field: ID:num	
Responsibilities: <ul style="list-style-type: none"> - Get stored user information from id 	Collaborators: <ul style="list-style-type: none"> - userID

API name: deleteProfile Url: DELETE http://localhost:8000/api/profile/id :	
Required field: ID:num	
Responsibilities: <ul style="list-style-type: none">- Delete stored user information from id	Collaborators: <ul style="list-style-type: none">- userID

API name: updateProfile Url: PUT http://localhost:8000/api/profile/id/name :	
Required field: Name:str ID:num	
Responsibilities: <ul style="list-style-type: none">- Delete stored user information from id- Change user name in this case	Collaborators: <ul style="list-style-type: none">- userID

User-account_feature CRC

Api name: registerUser url: POST http://localhost:8000/api/user	
Required field: <pre>{ "username": ???, "email": ???, "password": ??? }</pre>	
Responsibilities: <ul style="list-style-type: none"> Users are able to create an account based on their email. Users can create their own password and username Users don't have to login again since information is stored in cookie with JWT Token Users' password are hashed in database 	Collaborator: <ul style="list-style-type: none"> JWT Cookie brypt Users (schema)

Api name: loginUser url: POST http://localhost:8000/api/user/login	
Required field: <pre>{ "username": ???, "password": ??? }</pre>	
Responsibilities: <ul style="list-style-type: none"> Users with correct username and password should be able to login with this API, and the cookie should store the information. If a user fail to login because he provided wrong password and username the frontend should receive the correct response this API will compare the password that user provided with the one in the database 	Collaborator: <ul style="list-style-type: none"> bcrypt cookie User (schema) JWT

Api name: logout url: POST http://localhost:8000/api/user/logout	
Required field: <pre>{ }</pre>	
Responsibilities: <ul style="list-style-type: none"> clean the cookie send notification to frontend 	Collaborator: <ul style="list-style-type: none"> Cookie

Api name: changePassword url: PATCH http://localhost:8000/api/user/changePassword	
Required field: <pre>{ "password": ??? }</pre>	
Responsibilities: <ul style="list-style-type: none"> Change the password of the current user (from cookie) Hash the new password Store the password into backend 	Collaborator: <ul style="list-style-type: none"> bcrypt Cookie

Api name: getUser url: GET http://localhost:8000/api/user/:userId	
Required field: <pre>{ }</pre>	
Responsibilities: <ul style="list-style-type: none"> Return the user's email and username based on userId provided in URL 	Collaborator: <ul style="list-style-type: none"> User (schema)

Api name: getAllUser url: GET http://localhost:8000/api/all	
Required field: <pre>{ }</pre>	
Responsibilities: <ul style="list-style-type: none"> Return all user in the database with their email and username 	Collaborator: <ul style="list-style-type: none"> User (schema)

Frontend CRC Cards

Class Name: Register page	
Parent Class: None Sub Class: None	
Responsibilities: <ul style="list-style-type: none"> - A form with name, email, password, re-enter password and submit button input for the registration process. - Send the form data to the backend by calling the backend API. - A navigation bar to toggle from register page to login page. 	Collaborators: <ul style="list-style-type: none"> - registerUser - React - Tailwindcss - React-redux

Class Name: Login page	
Parent Class: None Sub Class: None	
Responsibilities: <ul style="list-style-type: none"> - A form with name, password and submit button input for the login process. - Send the form data to the backend by calling the backend API. - A navigation bar to toggle from register page to login page. 	Collaborators: <ul style="list-style-type: none"> - loginUser - React - Tailwindcss - React-redux