

Group Project 4 - Xask

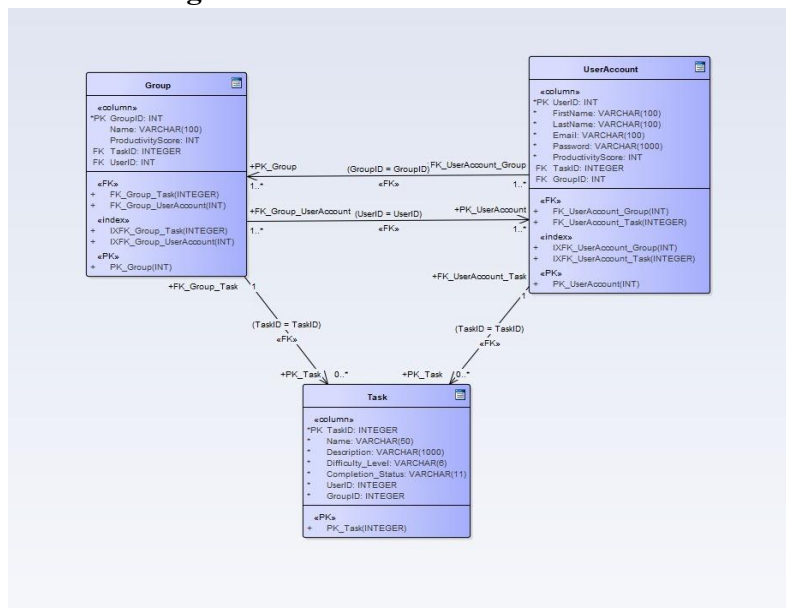
Members:

Front End Development and HTML: Rueben Hodges

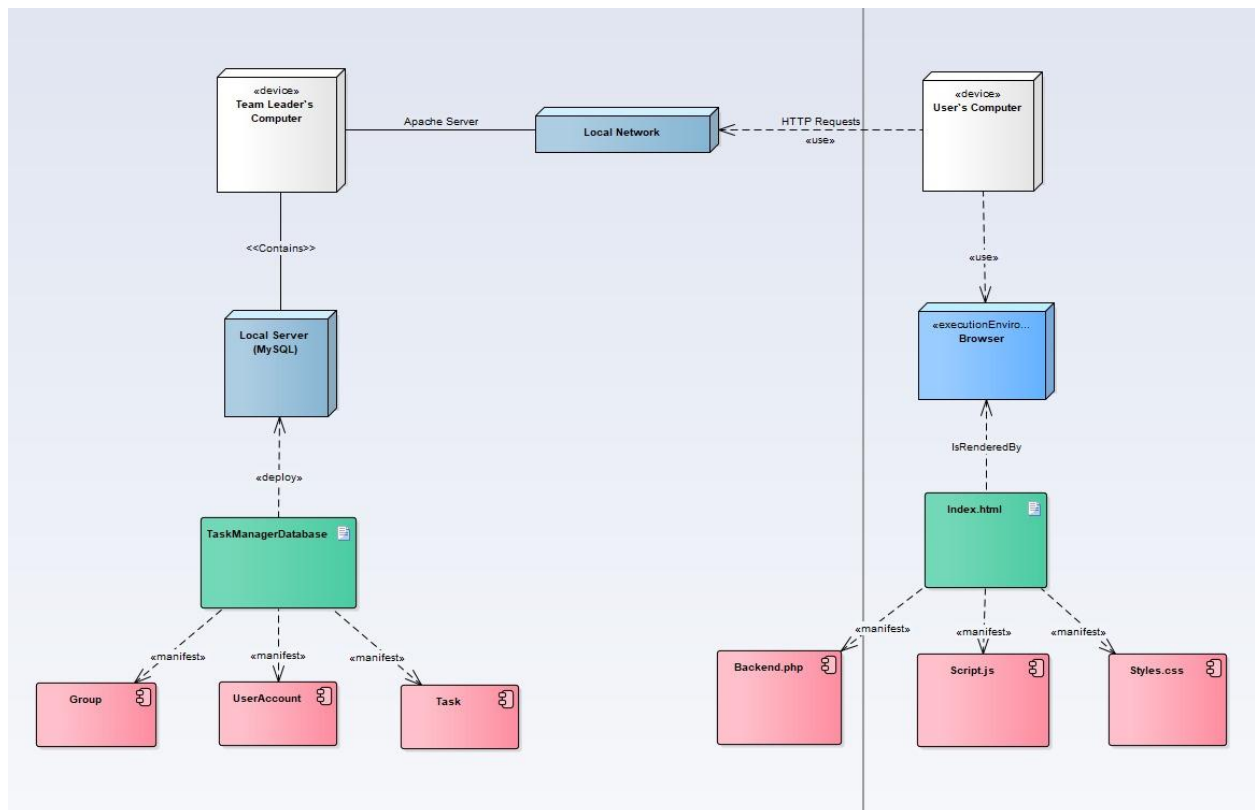
Back End Development and Database: Deniz Acikbas

UML Diagrams

Database Diagram



Deployment Diagram



Design Considerations

The team decided on a program based on a task list application. The tasklist will receive tasks and be able to mark and sort them according to the requirements as stated below. The project was to be implemented with html, php and javascript primarily. Originally react was a consideration but due to time constraints it was dropped from the project scope in large part.

Functional Requirements:

- 1- The user will be able to create, read, update and delete daily tasks.
- 2- The user will be able to assign a difficulty level for each task as "Hard", "Medium" and "Easy".
- 3- The user will also be able to categorize their tasks as "Completed", "Planned" and "Backlogged".
- 4- The user will have an option to assign tasks to other users and groups.
- 5- The user will have a productivity score based on the speed of their task completion on a percentage basis (Ex. 10 points increase for completing 2 hard tasks at the same time.)
- 6- The user will have motivational quotes on their screen from important people such as Steve Jobs to be more productive.
- 7- The user will have their own account.
- 8- Tasks shall consist of: Name, Description, Difficulty Level, Completion Status, UserID and GroupID.
- 9- The user account shall consist of: First Name, Last Name, Email, Password, Tasks, Groups and Productivity Score.
- 10- Groups shall consist of Group Name, Tasks, Users and The Group Productivity Score.

Non-Functional Requirements:

- 1- The application must be able to run Chrome, Safari and Firefox browsers.
- 2- In case the user makes mistakes, the users will see an animated message box instead of a Javascript pop-up.
- 3- The front-end and back-end requirements must satisfy the assigned requirements.

Estimated time to complete project: 2 days if requirements are negotiated, otherwise one week if everyone makes equal contribution.

UI /draft design

Sign In

Sign In

Email

Password

Login

Sign Up

Sign in - Login Failed

Sign In

Username or password is incorrect

Email

Password

Login

Sign Up

Navigation Bar

Task List | **Navigation Bar**

The screenshot shows the 'Navigation Bar' view of the 'Task List' application. The interface has a dark theme. At the top, a black header bar contains a hamburger menu icon on the left and the text 'Weekly Tasks - Group Turing' in the center. Below the header, the main area is divided into three sections. On the left is a dark sidebar with the user's name 'John Doe' and '100% Productive' status, followed by a settings gear icon. Below this are five menu items: 'User Tasks', 'Group Tasks', 'Group Turing' (which is highlighted with a blue underline), 'Group Alpha', and 'About'. The main content area on the right is split into two columns: 'Planned' and 'Backlogged'. The 'Planned' column contains a list of seven tasks: '1- Database initialization', '2- Initial Front-End Development', '3- Php Api Development', '4- Php Api Testing', '5- Php Api Integration', '6- Initial Testing', and '7- Post-completion document...'. The 'Backlogged' column contains one task: '1- Additional features'. At the bottom center of the main area is a large blue circular button with a white plus sign.

About

Task List | **About**

The screenshot shows the 'About' view of the 'Task List' application. The interface is similar to the 'Navigation Bar' view, but the 'About' menu item in the sidebar is highlighted with a blue underline. An 'About Task List' dialog box is open in the center of the screen. The dialog box has a dark blue header with the title 'About Task List'. Below the title, it displays the following information: 'Version 1.0', 'Released in December 8th 2023', 'Student Edition', 'Created by Deniz K Acikbas, Bilal Hashimi, Rueben H., Kale', and 'Developed for CIS 435 - Web Technology'. At the bottom of the dialog box is a blue button labeled 'OK'. The background of the application is dimmed behind the dialog box.

Add Task - Create Task

Task List | **Add Task**

☰

+

Add Task

↗

Discard

Water the plants

Walk the dog

Assign Task ▲

Easy

Medium

Hard

☐

☒

☐

Completed

Planned

Backlogged

☐

☒

☐

Edit Task - Update Task

Task List | **Edit Task**

☰

★

Update Task

↗

Discard

Water the plants

Assign Task ▲

Easy

Medium

Hard

☐

☒

☐

Completed

Planned

Backlogged



☐

☒

☐

Edit Task - Assign Task

Task List | **Add Task**

 **Add Task**  **Discard**

Water the plants

Walk the dog

Assign Task

John Doe (You)

John Doe

John Doe

John Doe

Completed


Planned

Backlogged

☒

List Tasks - User

Task List | **List Tasks - User**

 **Weekly Tasks - John Doe**

Completed

Planned


Backlogged

1- Documentation and mockups

1- Database initialization
2- Initial Front-End Development
3- Php Api Development
4- Php Api Testing
5- Php Api Integration
6- Initial Testing
7- Post-completion document...

1- Additional features


[Invite](#)



[Contributors](#)

List Tasks - Group

Task List | **List Tasks - Group**



Weekly Tasks - Group Turing

Completed

1- Documentation and mockups


Planned

1- Database initialization
2- Initial Front-End Development
3- Php Api Development
4- Php Api Testing
5- Php Api Integration
6- Initial Testing
7- Post-completion document...

Backlogged

1- Additional features ▲ ✕


[Invite](#)



[Contributors](#)

List Tasks - Contributors Button Pressed

Task List | **List Tasks - Group**



Weekly Tasks - Group Turing

Completed

1- Documentation and mockups

Planned


1- Database initialization

Backlogged

1- Additional features ▲ ✕

Contributors

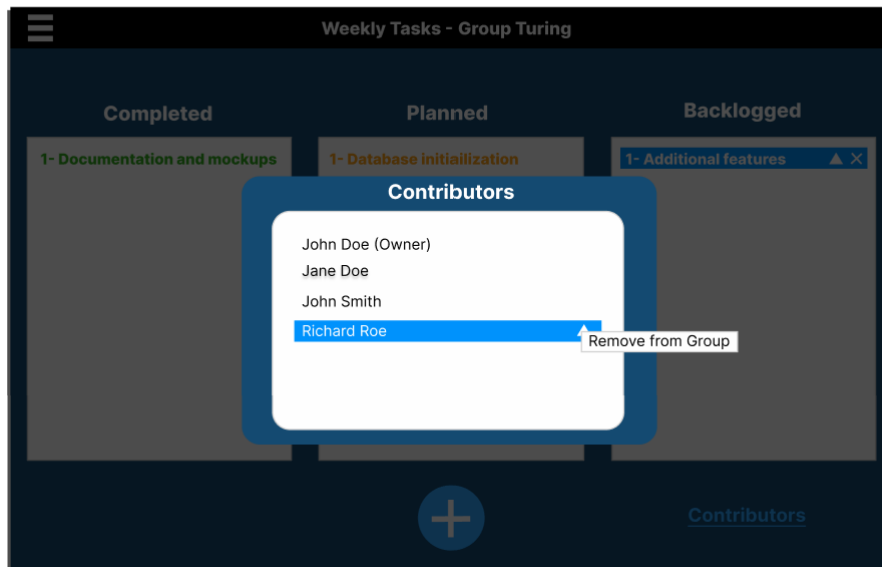
John Doe (Owner)
Jane Doe
John Smith
Richard Roe ▲



[Contributors](#)

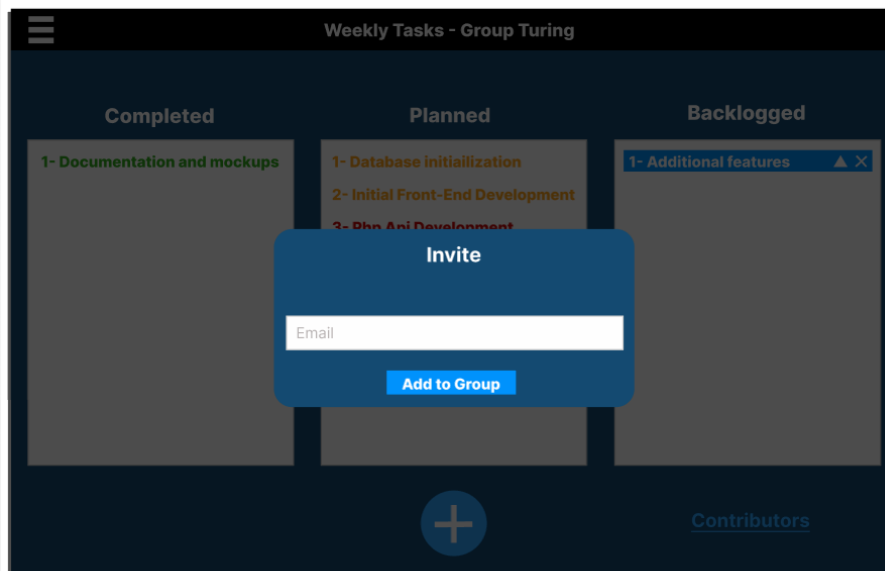
List Tasks - Triangle Next to Contributor Pressed

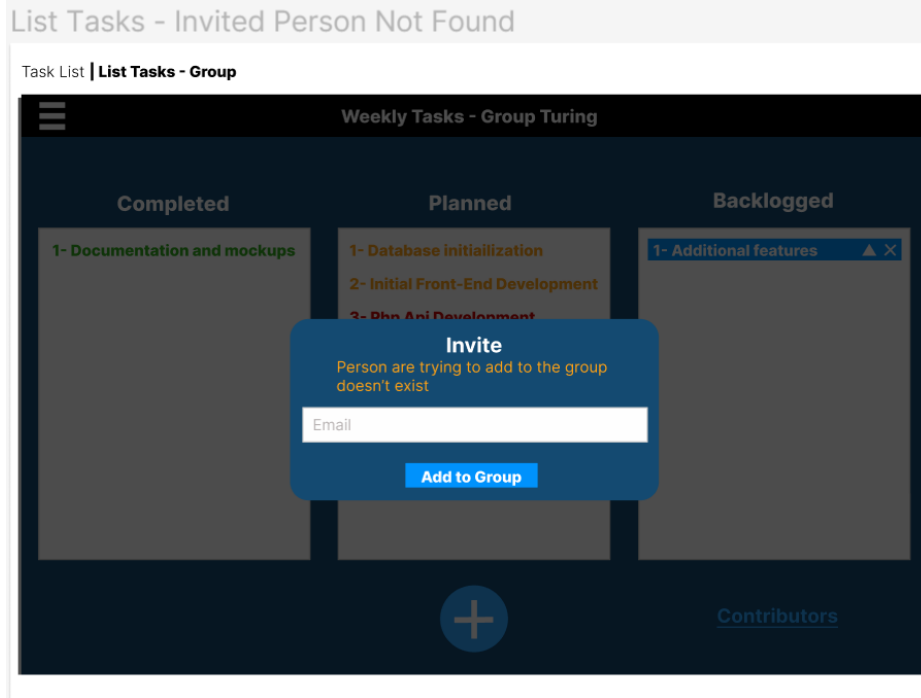
Task List | List Tasks - Group



List Tasks - Contributors Button Pressed

Task List | List Tasks - Group





Learning Outcomes

Rueben's Perspective.

As I worked on the front-end html, I gained a vast respect for the frameworks and integrations needed to make full stack web applications. Project scope can definitely be a big defining factor in the outcome of a project. Set up of the application can be a ton of work in itself with managing branches and versions of the application as well as setting up xampp and other backend frameworks. Asynchronous fetch can be complicated when there are many different frameworks intersecting and requirements are very much important to define in the beginning of the project before even touching any code. However there are still a vast amount of new technologies and tools such as figma which allow for the swift development of UI elements.

Deniz's Perspective

For this project, I have written the project requirements, designed UML database and deployment diagrams, certain UI prototypes, created database tables for user accounts, groups and tasks and set up the React.js development environment. I have additionally integrated Rueben's front-end codes with the React components and attempted to integrate front-end with API. My work is not only limited to creating databases and React environments but also I have created PHP based APIs for each table (UserAccountAPI, GroupAPI, TaskAPI, UserTasksAPI, GroupTasksAPI). However, the integration of API with the front-end was one of the biggest problems we encountered because the browser was not receiving the data from API which was due to several issues ranging from CORS policy to JSON transformation. Another problem we encountered was that other than me and Rueben, other members just formed the group but made little to no commitment, this made it harder for us to complete the project as expected.

Tutorial

Setup

- 1.) Copy Database to PHPmyadmin
- 2.) Copy api source folders to a subfolder in xampp on localhost:8080
- 3.) run the signin.html on the local host.

Use case

- 1.) Input a username and password
- 2.) On the next page add a task into the box that says todo then hit "enter" with a difficulty and status selected.