Cryptocurrency trader game
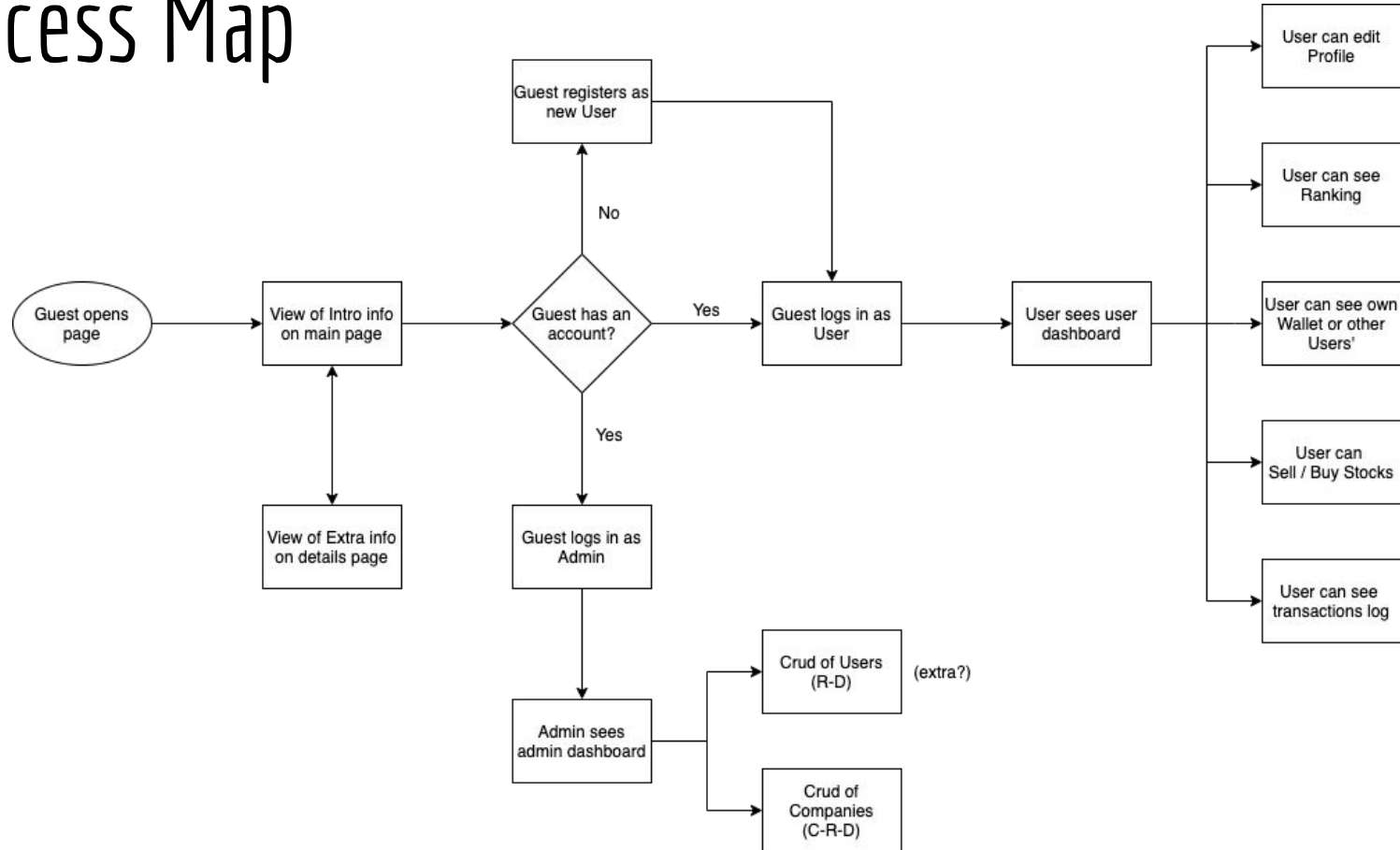
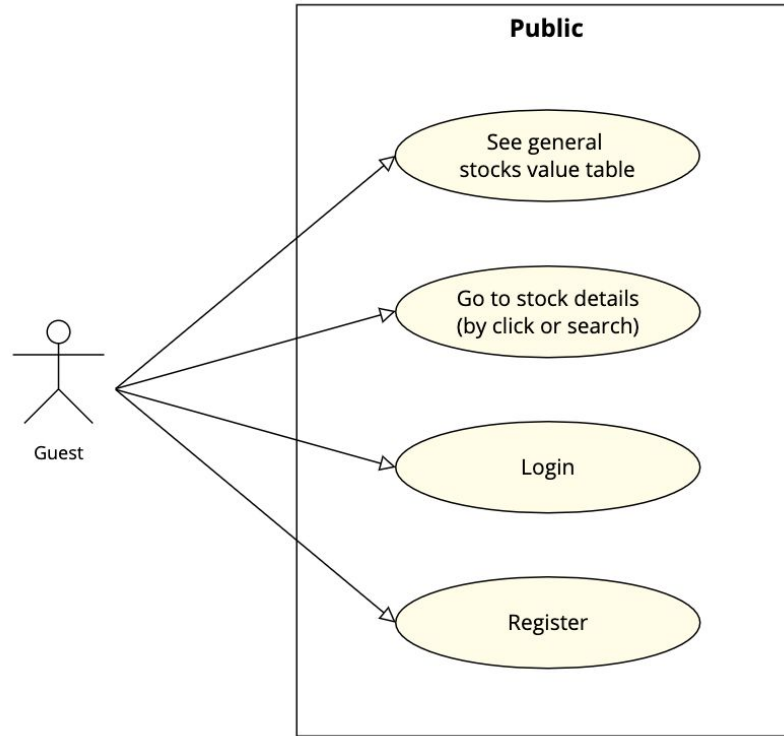Guilherme, Yulia, Christian & Jorge

Project description

- The project will consist on a simulated cryptocurrency trading game.

- Each player has an amount of money to spend in their wallet.

- A global ranking is updated based on the current total value of each player's wallet.

Process Map

Use Cases

Use Cases

Dashboard player

Player

- See general stocks value table
- Go to stock details (by click or search)
- See ranking of players
- See own profile
- Edit own profile
- See own wallet
- See other players' wallet
- Buy stock value
- Sell stock value
- See transactions log

Use Cases

Dashboard Admin

Admin

- See companies
- Create company
- Remove company
- Edit company (extra)
- See users (extra)
- Delete user (extra)
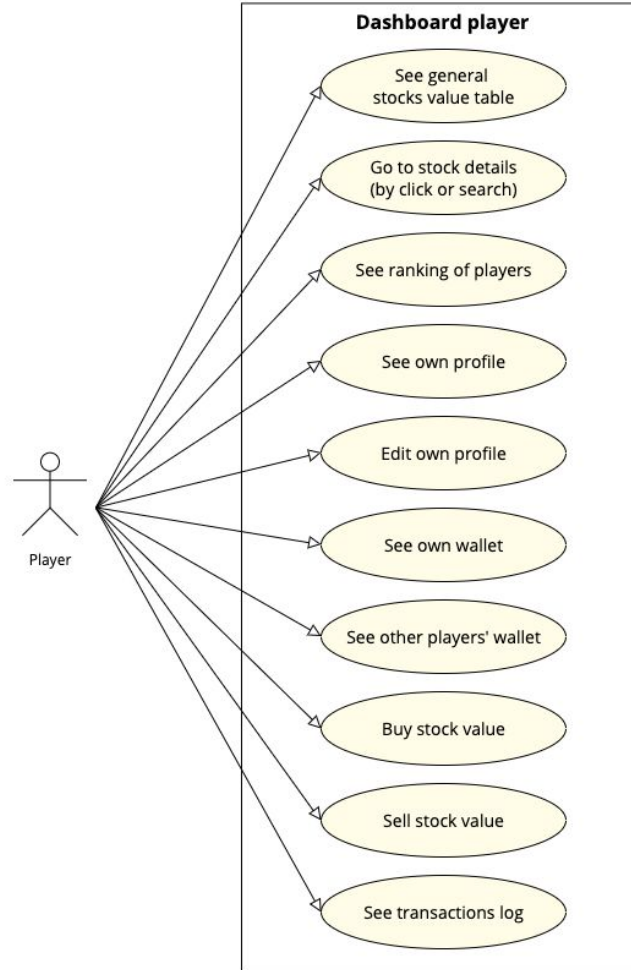
Database Design Diagram
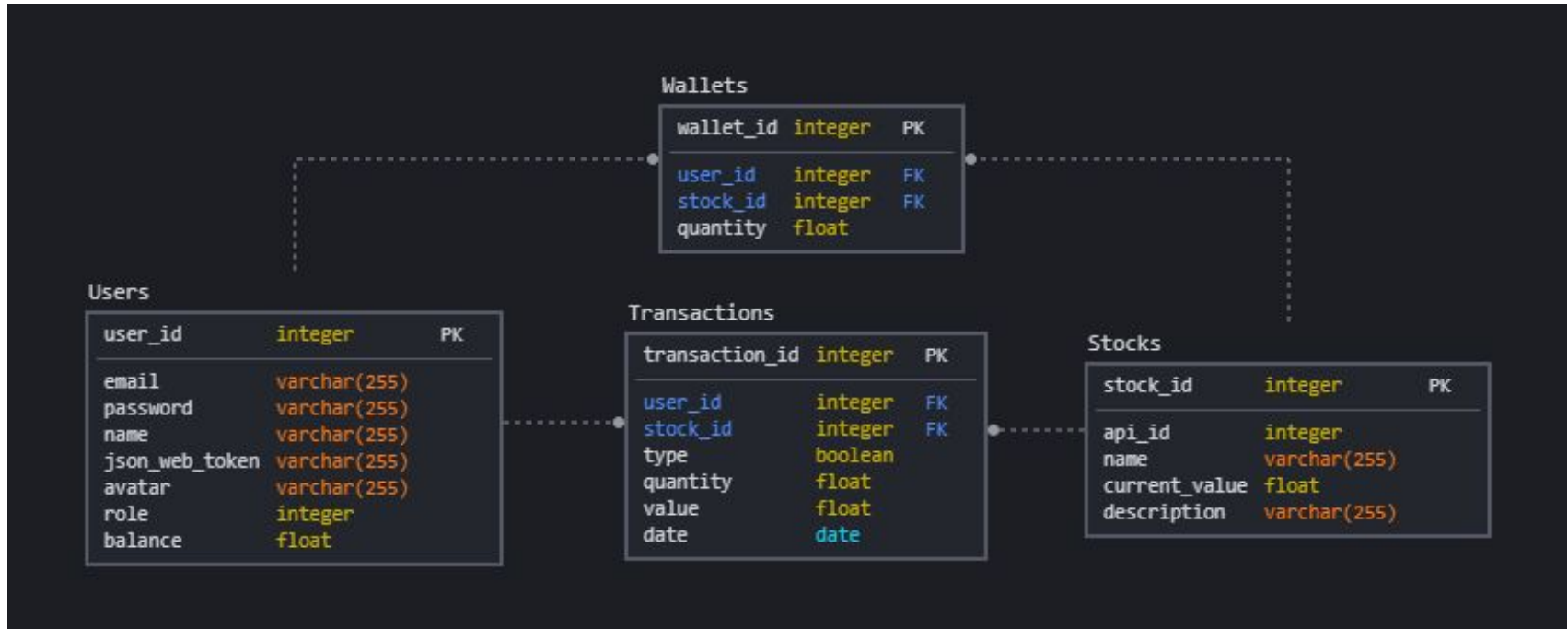
Basic Wireframe Design

Basic Wireframe Design

Basic Wireframe Design

Ranking

Crypto   Cryptocurrency   Ranking   Search for cryptocurrencies   Menu

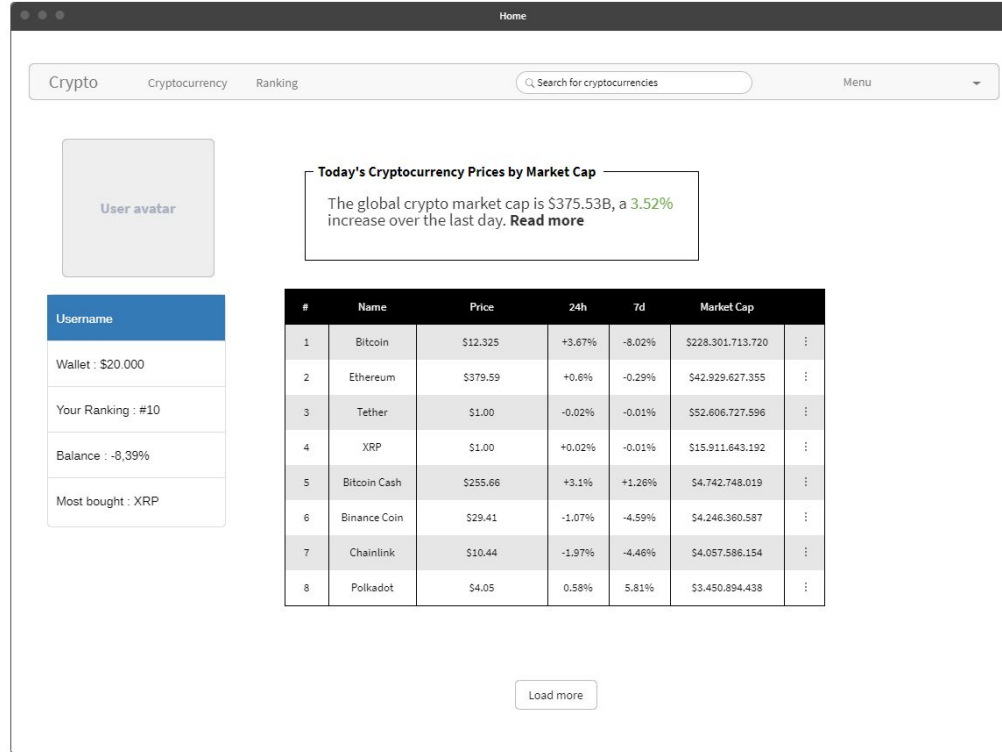User avatar

Ranking

#	Username	Wallet	Current Balance	Most Bought
1	Mark	$122.301	+12.21%	Bitcoin
2	Jacob	$77.351	-1.20%	Polkadot
3	Larry	$73.130	+3.33%	Ethereum
4	Otto	$62.101	+7.11%	Bitcoin
5	Throton	$60.344	-2.20%	NEO
6	theBird	$57.140	+9.33%	IOTA

Username

Wallet : $20.000

Your Ranking : #10

Balance : -8,39%

Most bought : XRP
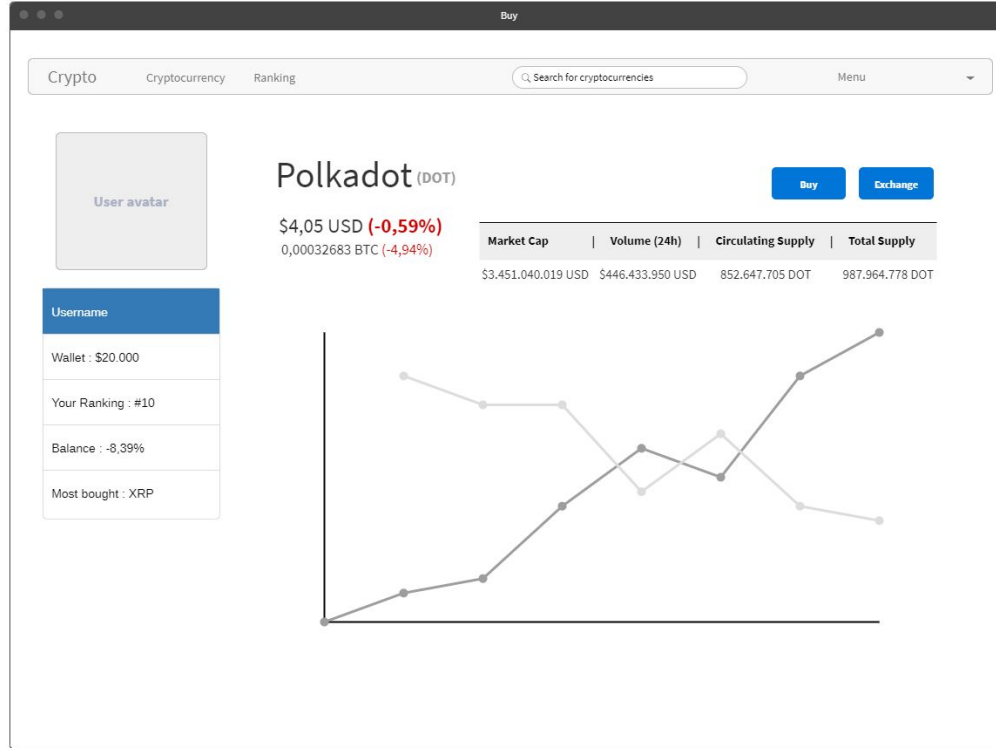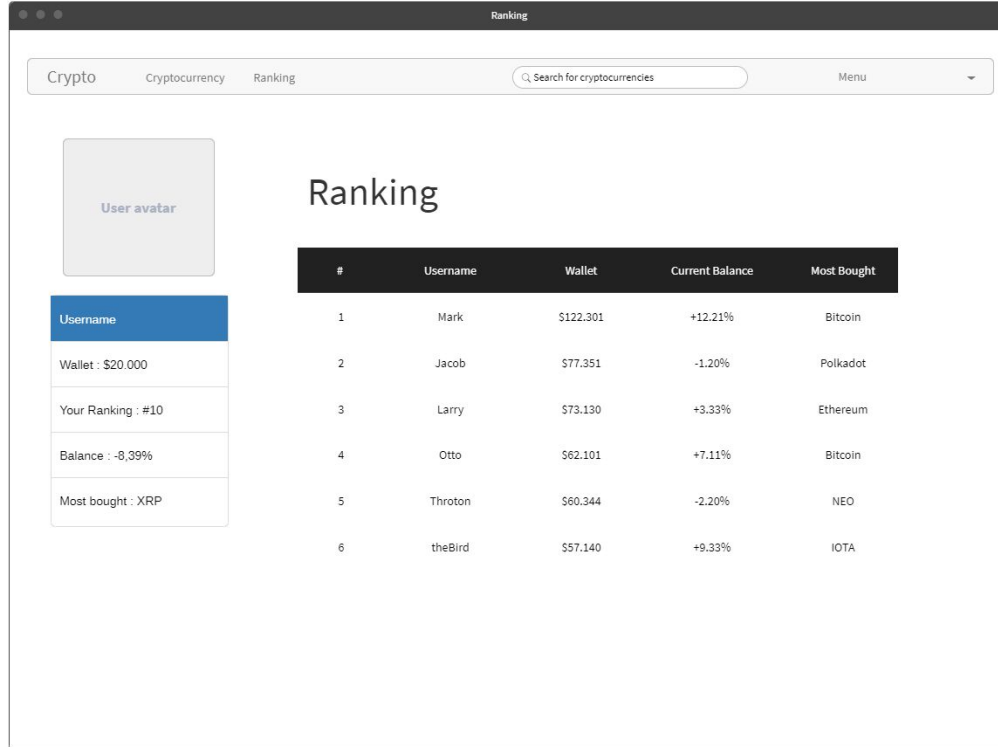
Basic Wireframe Design
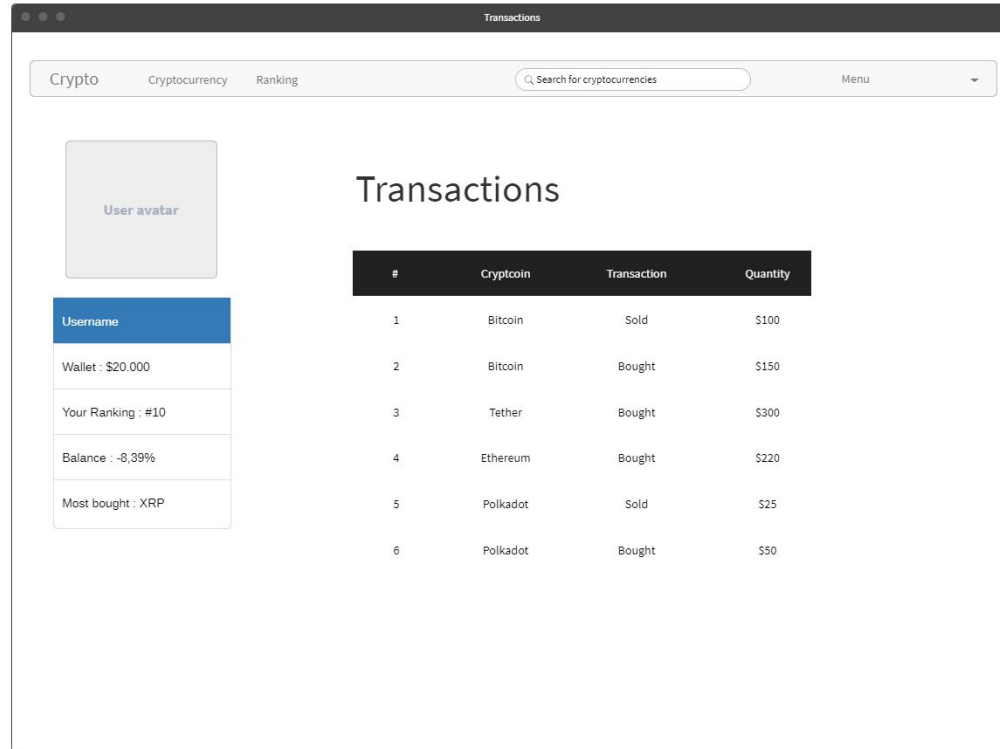
Technologies used

Frontend:

- Vue.js
- Chart.js
- Bootstrap
- Axios/Fetch

Backend:

- node.js (w/ common.js)
- Express
- Bcrypt
- JSON web tokens
- SQL/external ORM (Sequelize)
- External API
- Axios/Fetch

Roles & Responsibilities

	Front-end	
	Guilherme	*Jorge*
Role	Full Stack	Full Stack
Main tasks	- SPA design with Vue.js based on single file components - Routing - CRUD-views authentication using Vue routing - Pagination - Ajax requests to back-end service	- Project Lead - Documentation - Tasks follow-up - Project communication and coordination
Supports with	-	- SPA design / components - Back-end (if necessary)

Roles & Responsibilities

	Back-end	
	Yulia	*Christian*
Role	Back-end	Back-end
Main tasks	- Database design - Database creation using ORM (Sequelize) - MVC structure (Routers + Controllers + Models) - Ajax requests to third-party API - README file	- Database design - Server creation (Express) - Authentication system (JWT) - URL protection with middleware - Ajax requests to third-party API - README file
Supports with	SPA design / components (if necessary)	-

Planning for Implementation

Day 1 - Oct. 22nd			
Front-end		**Backend**	
Task	*Est. time*	*Task*	*Est. time*
Project presentation (all)	1h	Project presentation (all)	1h
Create project structure with CLI	0.5h	Create project structure with express	0.5h
Define basic routing	1h	Define basic routing	2h
Create files for all necessary views	0.5h	Research on Sequelize ORM	3h
Create components for view Home	3h	Research on login with JSON WT	3h
Team meeting on daily progress (all)	0.5h	Team meeting on daily progress (all)	0.5h

Planning for Implementation

Day 2 - Oct. 23rd			
Front-end		**Backend**	
Task	*Est. time*	*Task*	*Est. time*
Design Details view	6.5h	Implement login system with JWT	6.5h
Design Login + Register views	6.5h	Implement DB Models with Sequelize	6.5h
Test Chart.js in homepage	3h		
Team meeting on daily progress (all)	0.5h	Team meeting on daily progress (all)	0.5h

Planning for Implementation

Day 3 - Oct. 26th			
Front-end		**Backend**	
Task	*Est. time*	*Task*	*Est. time*
Design admin Dashboard view	6.5h	Implement route protection and finish up with routing	3.5h
Design user Dashboard views	6.5h	Define controllers and their methods signature	3.5h
Team meeting on daily progress (all)	0.5h	Team meeting on daily progress (all)	0.5h

Planning for Implementation

Day 4 - Oct. 27th			
Front-end		**Backend**	
Task	*Est. time*	*Task*	*Est. time*
Implement ajax requests to back-end for corresponding endpoints	3.5h	Implement ajax requests to third-party API to obtain raw data	3.5h
Design error messages when using forms and ajax	3.5h	Implement controller methods to return data in JSON format at defined endpoints	3.5h
Implement CRUD-views authentication with Vue routing	3.5h		
Team meeting on daily progress (all)	0.5h	Team meeting on daily progress (all)	0.5h

Planning for Implementation

Day 5 - Oct. 28th	
All	
Task	*Est. time*
Overall review and minor bug fixing	3h
Front + Back convergence tests	3h
Wrap-up project documentation and README files	2h