UTSC HUB
System Design Document

Andrew Qian
Henry Zhuo
John Yuan
Muntaqa Mahmood
Nandhakishore Krishnamurthy Shanthi
Shence Yang
Shun Murai

Table of Contents

Frontend CRC Cards

Login Page	
Parent: none **Subclass:** Signup Page	
Responsibilities: ● Allow users who are registered to go to their profile page to see their posts and events. ● Users who are unregistered can go to the signup page to sign up for an account.	**Collaborators:** ● Signup Page ● Profile Page

Signup Page	
Parent: Login Page **Subclass:** none	
Responsibilities: ● Allow unregistered users to sign up for a new account using their UofT email so they can make posts and events.	**Collaborators:** ● Login Page

Profile Page

Parent: Login Page **Subclass: Navigation Bar**	
Responsibilities: ● Logged-in users can see their profile information and all the posts they made about events and items they want to sell or buy.	Collaborators: ● Login Page ● Navigation Bar

Navigation Bar

Parent: Profile Page **Subclass: none**	
Responsibilities: ● Logged-in users can go to different pages by clicking on the subtext in the bar	Collaborators: ● Profile Page ● About Page ● Market Page ● Event Page ● Message Page

Event Page
Parent: Profile Page Subclass: Navigation Bar

Responsibilities:	Collaborators:
● Logged-in users can see the events that have been posted.	● Post Event Page ● Event Details Page ● Navigation Bar

Post Event Page
Parent: Event Page Subclass: Navigation Bar

Responsibilities:	Collaborators:
● Logged-in users can post their own events and the created events can be found in Event Page	● Event Page ● Navigation Bar

Event Details Page	
Parent: Event Page Subclass: Navigation Bar	
Responsibilities: ● Logged-in users can see the details of the event (description) by clicking the square box in the Event Page	Collaborators: ● Event Page ● Navigation Bar

Backend CRC Cards

User	
Parent/Subclass: None	
Responsibilities: • Provides model/schema for users for the app	Collaborators: • MongoDB database • Event

Event	
Parent/Subclass: None	
Responsibilities: • Provides model/schema for events created by users for the app	Collaborators: • MongoDB database • User

Backend API
Parent/Subclass: none

Responsibilities:	Collaborators:
● Handles all endpoints for authentication, log in, register	● Server ● Router (auth.js, users.js, events.js, etc)

Router	
Responsibilities: ● Route configs are responsible for initializing and associating routes with controllers. ● Handling HTTP Requests and Responses.	Collaborators: ● Client ● MongoDB database ● Server

Events Routing	
Parent/Subclass: None	
Responsibilities: ● Route configs are responsible for initializing and associating routes with controllers. ● Handling HTTP Requests and Responses.	Collaborators: ● MongoDB database ● User Schema Model ● Event Schema Model

Software Architecture Diagram: MVC

MODEL

MongoDB Database

User

View

Frontend Router

React Components (JSX, CSS)

Controller (Routes)

Routes

Models

Backend Service (API Server)

HTTP Requests

Frontend methods for making requests to backend

User input

Updates