



SYSTEM DESIGN DOCUMENT

Being Seen Mobile App

Designed by: Team Brute Forced Solutions

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CRC Cards

Front end

Class Name: Button	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none">• Allows users to submit a form• Links users to another screen upon press• Opens/closes a screen or menu	Collaborators: <ul style="list-style-type: none">•

Class Name: Header	
Parent Class (if any): Subclasses (if any): PrimaryHeader, SecondaryHeader, TertiaryHeader	
Responsibilities <ul style="list-style-type: none">• Provide headings to indicate sections of text	Collaborators: <ul style="list-style-type: none">•

Class Name: PrimaryHeader	
Parent Class (if any): Header Subclasses (if any):	
Responsibilities <ul style="list-style-type: none">• Exists as the biggest, primary heading	Collaborators: <ul style="list-style-type: none">•

Class Name: SecondaryHeader	
Parent Class (if any): Header Subclasses (if any):	
Responsibilities <ul style="list-style-type: none">• Exists as the second biggest, secondary heading	Collaborators: <ul style="list-style-type: none">•

Class Name: TertiaryHeader	
Parent Class (if any): Header Subclasses (if any):	
Responsibilities <ul style="list-style-type: none">• Exists as the third biggest, tertiary heading	Collaborators: <ul style="list-style-type: none">•

Class Name: TextInput	
Parent Class (if any):	
Subclasses (if any): TextField, TextArea	
Responsibilities <ul style="list-style-type: none"> Allows users to input text that can be sent to the program for processing 	Collaborators: <ul style="list-style-type: none">

Class Name: TextField	
Parent Class (if any): TextInput	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Allows users to input a single line of text 	Collaborators: <ul style="list-style-type: none">

Class Name: TextArea	
Parent Class (if any): TextInput	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Allows users to input multiple lines of text for processing 	Collaborators: <ul style="list-style-type: none">

Class Name: UnderlinedLink	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Lets users click underlined text that links them to another screen or website 	Collaborators: <ul style="list-style-type: none">

Class Name: LoginScreen	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Lets users enter a form to log into the app • Links users to the relevant screens if they cannot log in 	Collaborators: <ul style="list-style-type: none"> • TextField • PrimaryHeader • UnderlinedLink • Button

Class Name: PasswordRecoveryScreen	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Lets users enter an email or SMS for next steps if they forget their account password 	Collaborators: <ul style="list-style-type: none"> • TextField • Button • PrimaryHeader

Class Name: Text	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Displays normal text 	Collaborators: <ul style="list-style-type: none"> •

Class Name: MenuOption	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Used inside a menu to link users to another part of the menu with more specific options 	Collaborators: <ul style="list-style-type: none"> • Text

Class Name: Image	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Renders an image 	Collaborators: <ul style="list-style-type: none"> •

Class Name: HamburgerMenu	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Shows users a summary of their account details, including profile picture, username, and account balance Lets users access their profile Lets users access the settings Allows users to log out of their account in the app 	Collaborators: <ul style="list-style-type: none"> MenuOption Image Text UnderlinedLink Button

Class Name: ProfileScreen	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Shows the user their account info Lets users access the settings 	Collaborators: <ul style="list-style-type: none"> NavigationBar Button Image PrimaryHeader SecondaryHeader Text Button

Class Name: SearchBar	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Allows users to search for a social service, another profile, etc Lets users choose filters to restrict their search results Gives search results based on query 	Collaborators: <ul style="list-style-type: none"> TextField Button

Class Name: ListItem	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Displays summarized information regarding a social service, job etc. • Clicking on the box links the user to a page with more detailed information 	Collaborators: <ul style="list-style-type: none"> • Image • SecondaryHeader • Text • InfoPage

Class Name: InfoPage	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Displays full information regarding a social service, job etc. • Allows users to click links for next steps, e.g. to apply to a job 	Collaborators: <ul style="list-style-type: none"> • PrimaryHeader • SecondaryHeader • TertiaryHeader • Button • Text • Image

Class Name: Tag	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Lets users show/hide displayed services, jobs etc. belonging to a certain category 	Collaborators: <ul style="list-style-type: none"> • Button

Class Name: NavigationBar	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Links the user to a different screen of the app, with there being multiple options 	Collaborators: <ul style="list-style-type: none"> • Button

Class Name: ListingScreen	
Parent Class (if any):	
Subclasses (if any): SheltersScreen, ServicesScreen, EducationScreen, JobsScreen	
Responsibilities <ul style="list-style-type: none"> • Lists items belonging to a specific category of social service • Provides a hamburger menu for navigation to profile, settings, or log out • Contains a search bar for social services • Contains tags to restrict displayed social services • Contains a navigation menu to other listing screens and profile 	Collaborators: <ul style="list-style-type: none"> • Image • Button • Tag • SearchBar • PrimaryHeader • HamburgerMenu • NavigationBar

Class Name: SheltersScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Gives a list of nearby homeless shelters 	Collaborators: <ul style="list-style-type: none"> • SecondaryHeader • TertiaryHeader • ListItem • Text

Class Name: ServicesScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Gives a list of miscellaneous social services like soup kitchens, safe injection sites, etc. 	Collaborators: <ul style="list-style-type: none"> • SecondaryHeader • TertiaryHeader • ListItem • Text

Class Name: EducationScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Gives a list of mentorship, education opportunities 	Collaborators: <ul style="list-style-type: none"> • SecondaryHeader • TertiaryHeader • ListItem • Text

Class Name: JobsScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Gives a list of available jobs openings 	Collaborators: <ul style="list-style-type: none"> SecondaryHeader TertiaryHeader ListItem Text

Back end

Class Name: Service	
Parent Class (if any):	
Subclasses (if any): Shelter, Job, Education, MiscService	
Responsibilities <ul style="list-style-type: none"> Encapsulating basic data that a service's schema may require 	Collaborators: <ul style="list-style-type: none">

Class Name: Shelter	
Parent Class (if any): Service	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Responsible for keeping track of a given shelter/social services' information including address, reviews, etc. 	Collaborators: <ul style="list-style-type: none"> Review Tag

Class Name: Merchant	
Parent Class (if any): Service	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Responsible for keeping track of a given store's information including address, reviews, etc. 	Collaborators: <ul style="list-style-type: none"> Review Tag

Class Name: Review	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Responsible for encapsulating all data about a given review such as reviewer, date, rating, etc. 	Collaborators: <ul style="list-style-type: none"> Youth

Class Name: Tag	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Responsible for encapsulating all data about a given tag to make finding information easy 	Collaborators: <ul style="list-style-type: none">

Class Name: User	
Parent Class (if any): Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Encapsulating data about an user account belonging to a homeless youth ie their balance, story 	Collaborators: <ul style="list-style-type: none">

Class Name: Education	
Parent Class (if any): Service Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Encapsulating data about an educational/mentorship service 	Collaborators: <ul style="list-style-type: none">

Class Name: Job	
Parent Class (if any): Service Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Encapsulating data about a job opening 	Collaborators: <ul style="list-style-type: none">

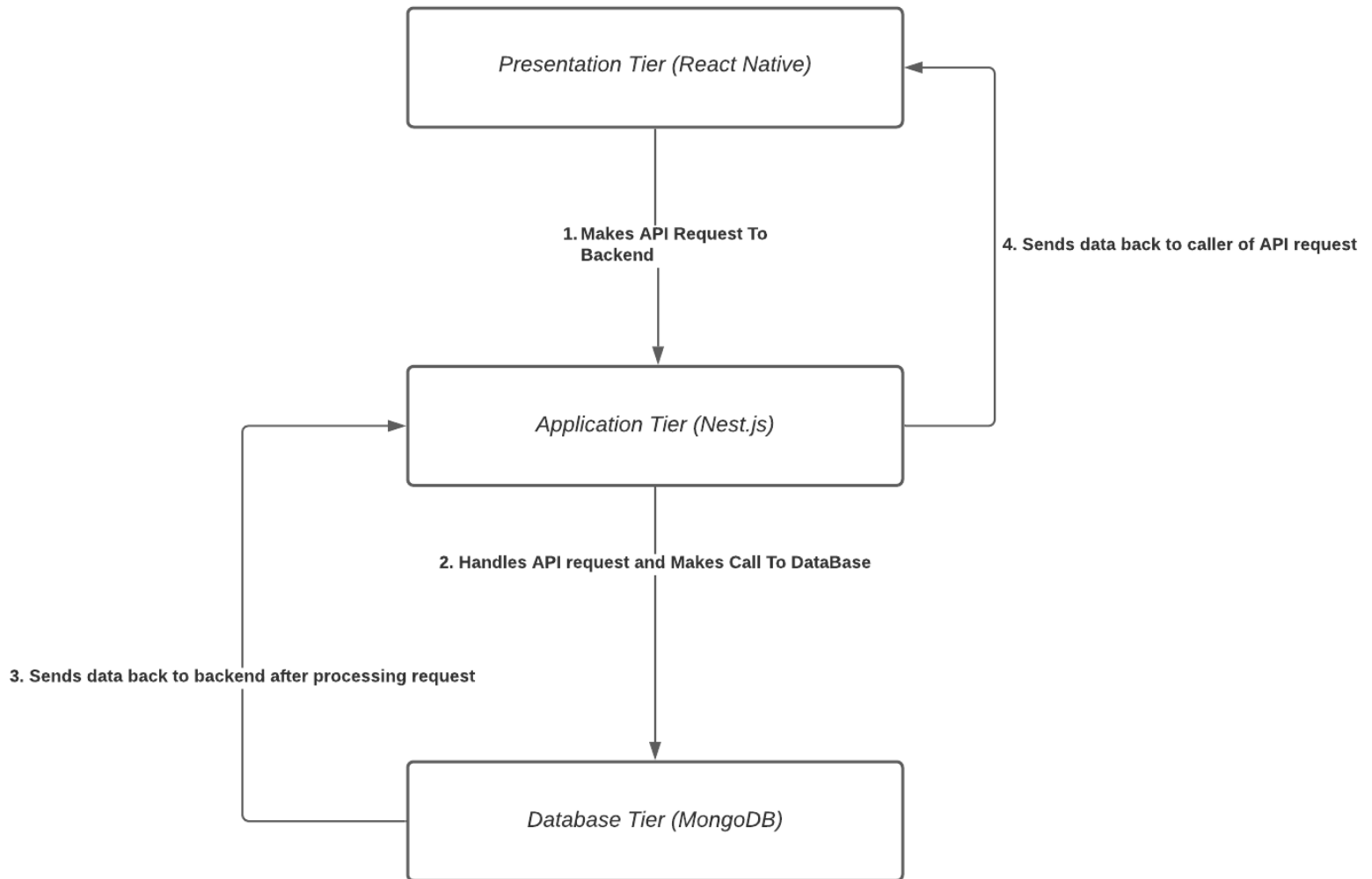
Class Name: MiscService	
Parent Class (if any): Service Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> Encapsulating data about a miscellaneous social service like soup kitchens, safe injection sites etc. 	Collaborators: <ul style="list-style-type: none">

Class Name: Auth	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Handles user verification through log in • Grab user info from database • Create new user 	Collaborators: <ul style="list-style-type: none"> • Jwt

Class Name: Jwt	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities <ul style="list-style-type: none"> • Creates new JWT token for user for authentication purposes 	Collaborators: <ul style="list-style-type: none"> •

System Architecture Diagram

Diagram



References

<https://www.ibm.com/cloud/learn/three-tier-architecture>