SYSTEM DESIGN DOCUMENT

Being Seen Mobile App

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CRC Cards

Front end

Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Allows users to submit a form 	•
 Links users to another screen upon press 	
 Opens/closes a screen or menu 	
Class Name: Header	
Parent Class (if any):	
Subclasses (if any): PrimaryHeader, SecondaryHead	er, TertiaryHeader
Responsibilities	Collaborators:
 Provide headings to indicate sections of 	•
text	
Class Name: PrimaryHeader	
Parent Class (if any): Header	
Subclasses (if any):	
Responsibilities	Collaborators:
 Exists as the biggest, primary heading 	•
Class Name: SecondaryHeader	
Parent Class (if any): Header	
Subclasses (if any):	
Responsibilities	Collaborators:
 Exists as the second biggest, secondary 	•
heading	

Class Name: TertiaryHeader	
Parent Class (if any): Header	
Subclasses (if any):	
Responsibilities	Collaborators:
 Exists as the third biggest, tertiary heading 	•

Class Name: TextInput	
Parent Class (if any):	
Subclasses (if any): TextField, TextArea	
Responsibilities	Collaborators:
 Allows users to input text that can be sent 	•
to the program for processing	
Class Name: TextField	
Parent Class (if any): TextInput	
Subclasses (if any):	
Responsibilities	Collaborators:
 Allows users to input a single line of text 	•
Class Name: TextArea	
Parent Class (if any): TextInput	
Subclasses (if any):	
Responsibilities	Collaborators:
 Allows users to input multiple lines of text 	•
for processing	
Class Name: UnderlinedLink	
Parent Class (if any):	
Subclasses (if any):	

Collaborators:

Responsibilities

• Lets users click underlined text that links them to another screen or website

Class Name: LoginScreen	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Lets users enter a form to log into the 	 TextField
арр	 PrimaryHeader
 Links users to the relevant screens if they 	 UnderlinedLink
cannot log in	Button

Class Name: PasswordRecoveryScreen	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Lets users enter an email or SMS for next 	 TextField
steps if they forget their account password	Button
	 PrimaryHeader

Class Name: Text		
Parent Class (if any):		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Displays normal text 	•	

Class Name: MenuOption	
Parent Class (if any): Subclasses (if any):	
Responsibilities	Collaborators:
 Used inside a menu to link users to another part of the menu with more specific options 	• Text

Class Name: Image	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
Renders an image	•

Class Name: HamburgerMenu Parent Class (if any): Subclasses (if any): Collaborators: Responsibilities Shows users a summary of their account MenuOption details, including profile picture, username, Image and account balance Text Lets users access their profile UnderlinedLink Lets users access the settings Button Allows users to log out of their account in

the app

Class Name: ProfileScreen	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Shows the user their account info 	 NavigationBar
 Lets users access the settings 	Button
	 Image
	 PrimaryHeader
	 SecondaryHeader
	Text
	Button

Class Name: SearchBar	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Allows users to search for a social service, another profile, etc 	TextFieldButton
 Lets users choose filters to restrict their search results 	
 Gives search results based on query 	

Class Name: ListItem	
Parent Class (if any): Subclasses (if any):	
Responsibilities	Collaborators:
 Displays summarized information regarding 	 Image
a social service, job etc.	 SecondaryHeader
 Clicking on the box links the user to a page 	Text
with more detailed information	 InfoPage

Class Name: InfoPage		
Parent Class (if any):		
Subclasses (if any):		
Responsibilities 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: PrimaryHeader SecondaryHeader TertiaryHeader Button Text Image	

Class Name: Tag		
Parent Class (if any):		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Lets users show/hide displayed services, jobs etc. belonging to a certain category 	• Button	

Class Name: NavigationBar	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Links the user to a different screen of the 	Button
app, with there being multiple options	

Class Name: ListingScreen Parent Class (if any): **Subclasses (if any):** SheltersScreen, ServicesScreen, EducationScreen, JobsScreen Responsibilities **Collaborators:** Lists items belonging to a specific category • Image of social service Button • Provides a hamburger menu for navigation Tag to profile, settings, or log out SearchBar Contains a search bar for social services PrimaryHeader Contains tags to restrict displayed social HamburgerMenu services NavigationBar Contains a navigation menu to other listing

screens and profile

Class Name: SheltersScreen		
Parent Class (if any): ListingScreen		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Gives a list of nearby homeless shelters 	 SecondaryHeader 	
	 TertiaryHeader 	
	• ListItem	
	Text	

Class Name: ServicesScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities	Collaborators:
Gives a list of miscallaneous social services	 SecondaryHeader
like soup kitchens, safe injection sites, etc.	 TertiaryHeader
	• ListItem
	Text

Class Name: EducationScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities	Collaborators:
 Gives a list of mentorship, education 	 SecondaryHeader
opportunities	 TertiaryHeader
	 ListItem
	Text

Class Name: JobsScreen	
Parent Class (if any): ListingScreen	
Subclasses (if any):	
Responsibilities	Collaborators:
 Gives a list of available jobs openings 	 SecondaryHeader
	 TertiaryHeader
	ListItem
	• Text

Back end

Class Name: Service		
Parent Class (if any):		
Subclasses (if any): Shelter, Job, Education, MiscService		
Responsibilities	Collaborators:	
 Encapsulating basic data that a service's schema may require 	•	

Class Name: Shelter	
Parent Class (if any): Service	
Subclasses (if any):	
Responsibilities	Collaborators:
 Responsible for keeping track of a given shelter/social services' information including address, reviews, etc. 	ReviewTag

Class Name: Review	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Responsible for encapsulating all data about a given review such as reviewer, date, rating, etc. 	• Youth

Class Name: Tag		
Parent Class (if any):		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Responsible for encapsulating all data about a given tag to make finding information easy 	•	

Class Name: Youth	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
 Encapsulating data about an user account belonging to a homeless youth ie their balance, story 	•

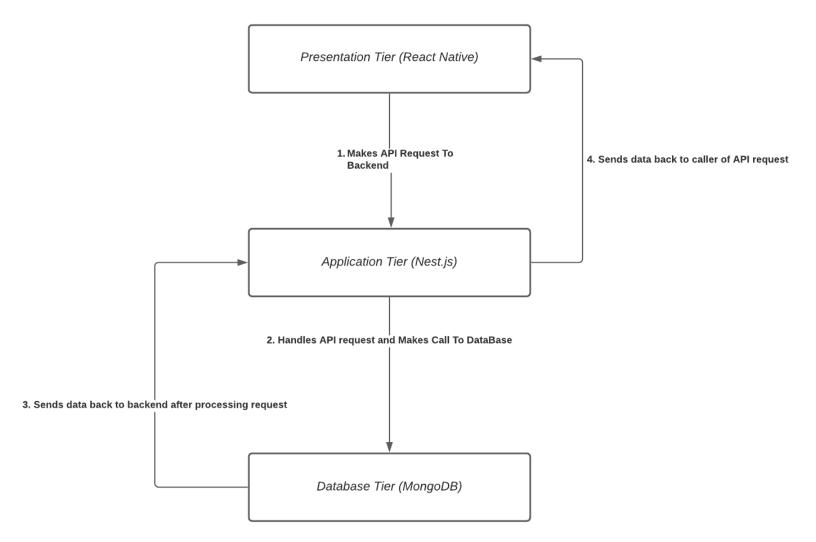
Class Name: Education		
Parent Class (if any): Service		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Encapsulating data about an educational/mentorship service 	•	

Class Name: Job		
Parent Class (if any): Service		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Encapsulating data about a job opening 	•	

Class Name: MiscService		
Parent Class (if any): Service		
Subclasses (if any):		
Responsibilities	Collaborators:	
 Encapsulating data about a miscellaneous social service like soup kitchens, safe injection sites etc. 	•	

System Architecture Diagram

Diagram



References

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