# SYSTEM DESIGN DOCUMENT

Being Seen Mobile App

Designed by: Team Brute Forced Solutions

#### Contents

CRC Cards	2
Front end	2
Back end	7
System Architecture Diagram	11
Diagram	11
References	11

### **CRC Cards**

#### Front end

Class Name: APIHandier	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
Handle API requests	•
·	
Class Name: AlertError	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Display pop-up window when error</li> </ul>	•
occurs	
Class Names Deal Dutter	
Class Name: BackButton	
Parent Class (if any):	
Subclasses (if any):	Tana.
Responsibilities	Collaborators:
Return to previous screen	•
Class Name: Button	
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	
• Opens/closes a screen of menu	
Class Name: Header	
Parent Class (if any):	
Subclasses (if any): PrimaryHeader, SecondaryHead	er, TertiaryHeader
Responsibilities	Collaborators:
<ul> <li>Provide headings to indicate sections of</li> </ul>	•
text	
Class Name Discounting I	
Class Name: PrimaryHeader	
Parent Class (if any): Header	
Subclasses (if any):	

Responsibilities	Collaborators:
<ul> <li>Exists as the biggest, primary heading</li> </ul>	•
Class Name: SecondaryHeader	
Parent Class (if any): Header	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Exists as the second biggest, secondary</li> </ul>	•
heading	
Class Name: TertiaryHeader	
Parent Class (if any): Header	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Exists as the third biggest, tertiary heading</li> </ul>	•
Class Names Tarthum t	
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 Names Tart Field	
Class Name: TextField	
Parent Class (if any): TextInput Subclasses (if any):	
Responsibilities	Collaborators:
Allows users to input a single line of text	•
7 mows users to impact 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.	•
for processing	
Class Name: UnderlinedLink	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
Lets users click underlined text that links	•
them to another screen or website	

Class Name: Login	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Lets users enter a form to log into the</li> </ul>	<ul> <li>TextField</li> </ul>
арр	<ul> <li>PrimaryHeader</li> </ul>
<ul> <li>Links users to the relevant screens if they</li> </ul>	<ul> <li>UnderlinedLink</li> </ul>
cannot log in	Button
	<ul> <li>ScreenHeader</li> </ul>
	<ul> <li>APIHandler</li> </ul>

Class Name: AccountRecoveryScreen	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Lets users email Been Seen to help them</li> </ul>	<ul> <li>BackButton</li> </ul>
recover their account	Button
	<ul> <li>ScreenHeader</li> </ul>

Class Name: RegisterAccountScreen	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Lets users enter an email Being Seen to</li> </ul>	<ul> <li>BackButton</li> </ul>
help them register an account	<ul> <li>ScreenHeader</li> </ul>
	<ul> <li>UnderlinedLink</li> </ul>

Class Name: ScreenHeader	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Tells users what screen they are on</li> </ul>	<ul> <li>SearchBar</li> </ul>
<ul> <li>Navigates users to the previous screen</li> </ul>	
<ul> <li>Gives users an options button</li> </ul>	
<ul> <li>Optionally provides a search bar for users</li> </ul>	
to search something	

Class Name: Profile	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Shows the user their account info</li> </ul>	<ul> <li>NavigationBar</li> </ul>
<ul> <li>Lets users access the settings</li> </ul>	<ul> <li>BackButton</li> </ul>
	Button
	• Image
	<ul> <li>PrimaryHeader</li> </ul>
	<ul> <li>SecondaryHeader</li> </ul>
	Text
	Button
	APIHandler

Class Name: ChangePassword	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Handle request to change password</li> </ul>	<ul> <li>BackButton</li> </ul>
	Button
	<ul> <li>ScreenHeader</li> </ul>
	<ul> <li>TextField</li> </ul>
	<ul> <li>apiHandler</li> </ul>
	AlertError

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

Class Name: TagRow	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
Displays a row of elements given a string	

Class Name: ServiceDetails	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Displays full information regarding a social service, job etc.</li> <li>Allows users to click links for next steps, e.g. to apply to a job</li> </ul>	<ul> <li>PrimaryHeader</li> <li>SecondaryHeader</li> <li>TertiaryHeader</li> <li>BackButton</li> <li>Button</li> <li>Text</li> <li>Image</li> <li>ScreenHeader</li> </ul>

Class Name: ListFromAPI	
Parent Class (if any): Subclasses (if any):	
Responsibilities  • Displays any kind of services in a list,	Collaborators:
depending on its parameter	<ul><li>PrimaryHeader</li><li>APIHandler</li><li>ServiceList</li></ul>

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

Class Name: DisplayNotif	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Displays a default styled error message to the user.</li> </ul>	•

Class Name: QuotationBlock	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Displays an indented section of text with a gray vertical line signifies the</li> </ul>	•

Class Name: ServiceList	
Parent Class (if any): Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Lists items belonging to a specific category of social service</li> <li>Provides a hamburger menu for navigation to profile, settings, or log out</li> <li>Contains a search bar for social services</li> <li>Contains tags to restrict displayed social services</li> <li>Contains a navigation menu to other listing screens and profile</li> </ul>	<ul> <li>Image</li> <li>Button</li> <li>Tag</li> <li>SearchBar</li> <li>HamburgerMenu</li> <li>NavigationBar</li> <li>ScreenHeader</li> <li>APIHandler</li> </ul>

Class Name: NewsReel	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Gives a list of recent postings or app news</li> </ul>	TertiaryHeader
	Button

#### Back end

Class Name: Service	
Parent Class (if any):	
Subclasses (if any): Shelter, Job, Education, MiscSe	ervice
Responsibilities	Collaborators:
<ul> <li>Encapsulating basic data that a service's schema may require</li> </ul>	• Tag

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

Class Name: Merchant	
Parent Class (if any): Service	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Responsible for keeping track of a given store's information including address, reviews, etc.</li> </ul>	<ul><li>Review</li><li>Tag</li></ul>

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

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

Class Name: User	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Contains the login certificates and the unique identification id of users.</li> </ul>	•

Class Name: Profile		
Parent Class (if any):		
Subclasses (if any):		
Responsibilities	Collaborators:	
<ul> <li>Encapsulating data about a user account belonging to a homeless youth ie their balance, story</li> </ul>	• User	

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

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

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

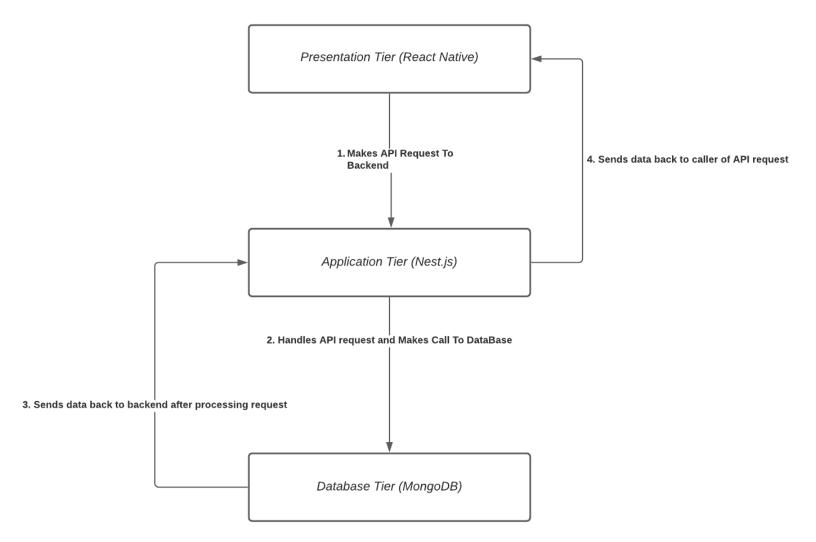
Class Name: Auth		
Parent Class (if any): Subclasses (if any):		
Responsibilities	Collaborators:	
<ul><li>Handles user verification through log in</li><li>Grab user info from database</li><li>Create new user</li></ul>	• Jwt	

Class Name: Jwt		
Parent Class (if any):		
Subclasses (if any):		
Responsibilities	Collaborators:	
<ul> <li>Creates new JWT token for user for</li> </ul>	•	
authentication purposes		

Class Name: Tag	
Parent Class (if any):	
Subclasses (if any):	
Responsibilities	Collaborators:
<ul> <li>Manages tags for objects in the backend,</li> </ul>	
for searching purposes	

## System Architecture Diagram

#### Diagram



#### References

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