



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">• |

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|---|---|
| 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">• |

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|---|---|
| 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">• |

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|---|---|
| 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">• |

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|---|--|
| 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"> |

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|---|--|
| 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"> |

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|---|--|
| 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"> |

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|--|--|
| Class Name: Login | |
| 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 ScreenHeader APIHandler |

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|---|--|
| Class Name: AccountRecoveryScreen | |
| Parent Class (if any): | |
| Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Lets users email Been Seen to help them recover their account | Collaborators: <ul style="list-style-type: none"> Button ScreenHeader |

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|---|--|
| Class Name: RegisterAccountScreen | |
| Parent Class (if any): | |
| Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Lets users enter an email Being Seen to help them register an account | Collaborators: <ul style="list-style-type: none"> ScreenHeader UnderlinedLink |

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|--|---|
| Class Name: ScreenHeader | |
| Parent Class (if any): | |
| Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Tells users what screen they are on Navigates users to the previous screen Gives users an options button Optionally provides a search bar for users to search something | Collaborators: <ul style="list-style-type: none"> SearchBar |

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|---|--|
| Class Name: Profile | |
| 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 APIHandler |

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|--|---|
| 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: TagRow | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> • Displays a row of elements given a string | Collaborators: |

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|--|---|
| Class Name: ServiceDetails | |
| 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 • ScreenHeader |

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|---|--|
| Class Name: ListFromAPI | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> • Displays any kind of services in a list, depending on its parameter | Collaborators: <ul style="list-style-type: none"> • PrimaryHeader • APIHandler • ServiceList |

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|--|--|
| Class Name: NavBar | |
| 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: DisplayNotif | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Displays a default styled error message to the user. | Collaborators: <ul style="list-style-type: none"> |

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|--|--|
| Class Name: QuotationBlock | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Displays an indented section of text with a gray vertical line signifies the | Collaborators: <ul style="list-style-type: none"> |

| | |
|--|---|
| Class Name: ServiceList | |
| Parent Class (if any): Subclasses (if any): | |
| 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 HamburgerMenu NavigationBar ScreenHeader APIHandler |

| | |
|---|--|
| Class Name: NewsReel | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Gives a list of recent postings or app news | Collaborators: <ul style="list-style-type: none"> TertiaryHeader Button |

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">• Tag |

| | |
|--|--|
| 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 | Collaborators: |

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|---|--|
| <ul style="list-style-type: none"> Responsible for encapsulating all data about a given tag to make finding information easy | <ul style="list-style-type: none"> |
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|--|--|
| Class Name: User | |
| Parent Class (if any): | |
| Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> Contains the login certificates and the unique identification id of users. | Collaborators: <ul style="list-style-type: none"> |

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

| | |
|--|--|
| 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"> |

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|--|--|
| 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"> |

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|---|--|
| 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"> |

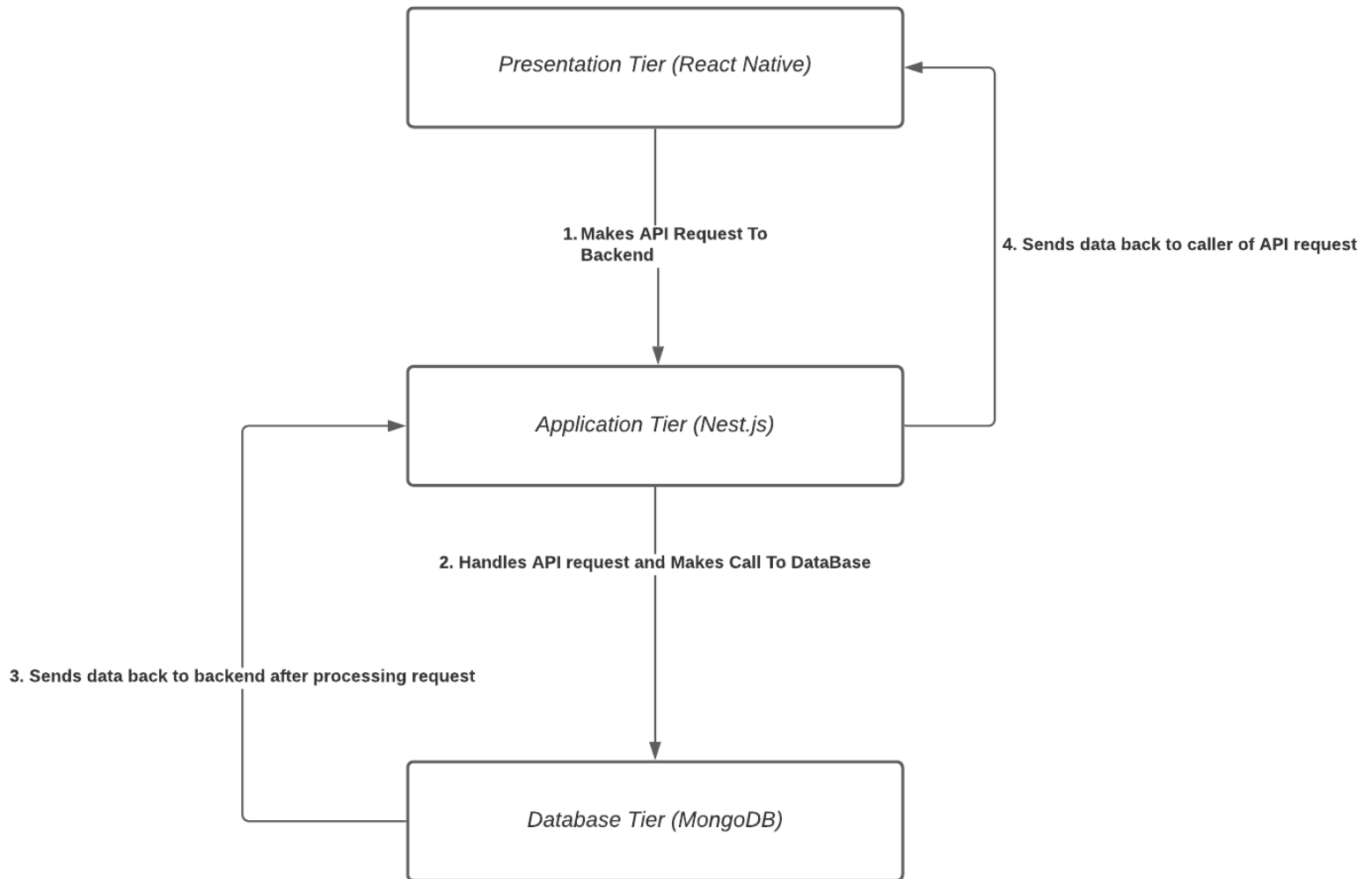
| | |
|---|---|
| Class Name: Auth | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> • Handles user verification through log in • Grab user info from database • Create new user | Collaborators: <ul style="list-style-type: none"> • Jwt |

| | |
|--|---|
| 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"> • |

| | |
|---|-----------------------|
| Class Name: Tag | |
| Parent Class (if any): Subclasses (if any): | |
| Responsibilities <ul style="list-style-type: none"> • Manages tags for objects in the backend, for searching purposes | Collaborators: |

System Architecture Diagram

Diagram



References

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