**System Design Document**

Team name: Admin

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CRC Cards

# BackEnd:

| **Class Name:** User | |
|---|---|
| **Parent Class:** None<br>**Subclasses:** Youth, Donor, Merchant | |
| **Responsibilities**:<br>- Store username<br>- Store password<br>- Store role | **Collaborators:** |

| **Class Name:** Donor | |
|---|---|
| **Parent Class:** User<br>**Subclasses:** None | |
| **Responsibilities**:<br>- Store name<br>- Store organisation<br>- Store display name<br>- Store profile picture link<br>- Store DOB | **Collaborators:** |

| **Class Name:** Merchant | |
|---|---|
| **Parent Class:** User<br>**Subclasses:** None | |
| **Responsibilities**:<br>- Store name<br>- Store profile picture link<br>- Store DOB<br>- Store name of store<br>- Store location of store | **Collaborators:** |

| **Class Name:** Youth |
|---|
| **Parent Class:** User<br>**Subclasses:** None |

| **Responsibilities**:<br>- Store name<br>- Store profile picture link<br>- Store DOB<br>- Store story<br>- Store saving_plan<br>- Store credit_balance | **Collaborators:** |
|---|---|

| **Class Name:** Donation | |
|---|---|
| **Parent Class:** None<br>**Subclasses:** None | |
| **Responsibilities**:<br>- Store order_id<br>- Store donor<br>- Store youth<br>- Store amount<br>- Store date | **Collaborators:** |

| **Class Name:** PendingDonation | |
|---|---|
| **Parent Class:** None<br>**Subclasses:** None | |
| **Responsibilities**:<br>- Store order_id<br>- Store donor<br>- Store youth<br>- Store amount | **Collaborators:** |

| **Class Name:** Product | |
|---|---|
| **Parent Class:** None<br>**Subclasses:** None | |
| **Responsibilities**:<br>- Store product name<br>- Store product description<br>- Store price<br>- Store owner<br>- Store product picture | **Collaborators:** |

# Frontend:

| **Component Name:** Layout | |
|---|---|
| **Parent Component:** Every Page Component (HomePage, LoginPage, etc.)<br>**Child Component:** Header | |
| **Responsibilities**:<br>- Show navigation | **Collaborators:** |

| **Component Name:** HomePage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** YouthCard, Layout | |
| **Responsibilities**:<br>- Show youths<br>- Serve as base path | **Collaborators:** |

| **Component Name:** LoginPage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** TextField, Layout, Button | |
| **Responsibilities**:<br>- Allow users to login | **Collaborators:** |

| **Component Name:** SignupPage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** TextField, Layout, Button, Avatar, Tabs | |
| **Responsibilities**:<br>- Allow user to swap between different user types<br>- Allow user to sign up for clicked account type | **Collaborators:** |

| **Component Name:** ProfilePage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** MerchantProfile, DonorProfile, YouthProfile | |
| **Responsibilities**:<br>- Displays the profile page where users can edit their account settings (ex: name) | **Collaborators:** |

| **Component Name:** StorePage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** ProductCard, Button | |
| **Responsibilities**:<br>- Displays the profile page where users can edit settings specific to their account (youth edit profile, merchant edit products, etc.) | **Collaborators:** |

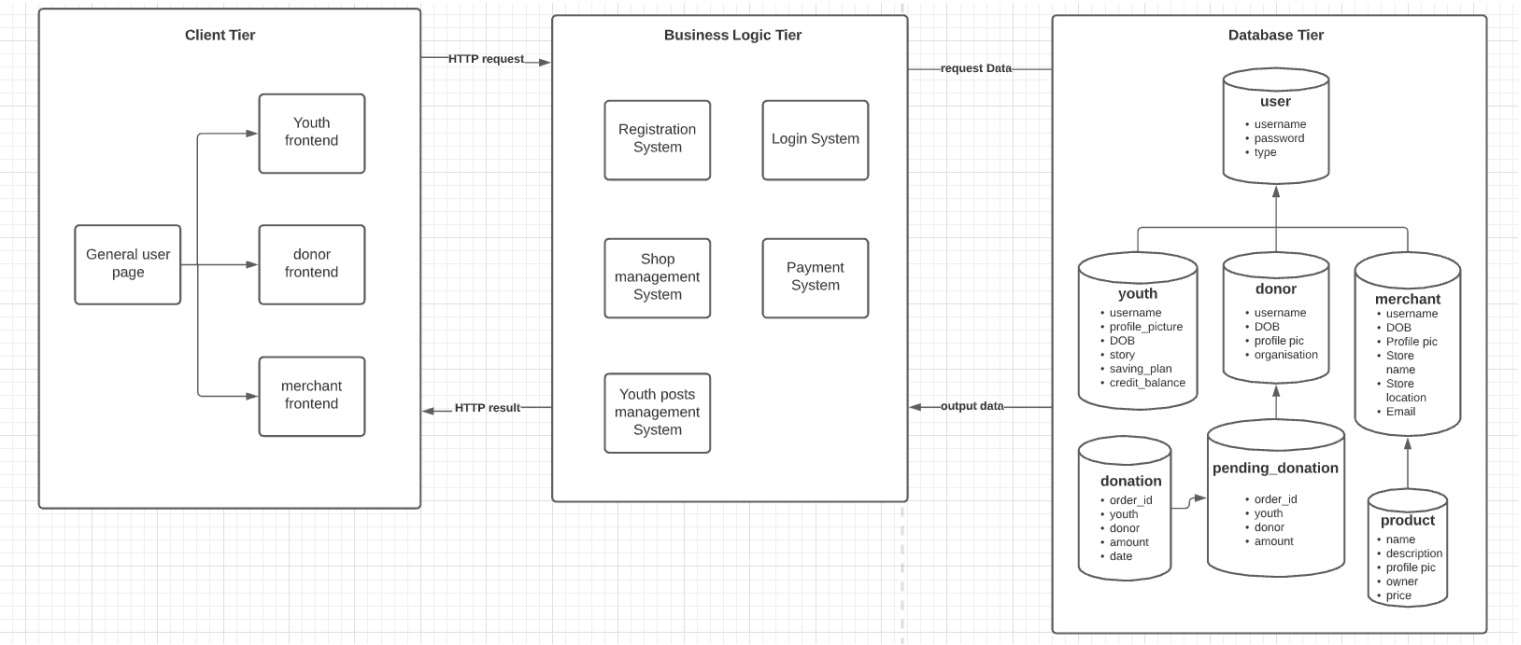
| **Component Name:** UploadPage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** TextField, Button | |
| **Responsibilities**:<br>- Displays fields to upload a new product for merchant | **Collaborators:** |

| **Component Name:** UserPage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** DonationCard, Button, Avatar, Chip | |
| **Responsibilities**:<br>- Display all details regarding a single youth | **Collaborators:** |

| **Component Name:** EditPage | |
|---|---|
| **Parent Component:** None<br>**Child Component:** TextField, Button | |
| **Responsibilities**:<br>- Displays fields to update info about a product for merchant | **Collaborators:** |

| **Component Name:** Dashboard | |
|---|---|
| **Parent Component:** None<br>**Child Component:** DonorDashboard, MerchantDashboard, YouthDashboard | |
| **Responsibilities**:<br>- Displays the dashboard which shows account specific settings (ex: merchants edit products) | **Collaborators:** |

# System Architecture Diagram




Link to our system architecture: https://www.linuxjournal.com/article/3508