

**System Design Document**  
Team name: Admin

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## CRC Cards

# BackEnd:

<b>Class Name:</b> payment (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> - process payment for users	<b>Collaborators:</b> - donation - purchase

<b>Class Name:</b> donation (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> - process donation when donor donate to youth	<b>Collaborators:</b> -Youth -Donation -PendingDonation

<b>Class Name:</b> purchase (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> - process purchase when youth purchase product from merchant	<b>Collaborators:</b> -Youth -Product -Merchant -Order

<b>Class Name:</b> user (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	

<b>Responsibilities:</b> - process endpoint request for all types of users	<b>Collaborators:</b> -Youth -Donor -Merchant
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<b>Class Name:</b> youth (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> - process endpoint requests for youth	<b>Collaborators:</b> - Youth - User - Order

<b>Class Name:</b> merchant (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> - process endpoint requests for merchant	<b>Collaborators:</b> - Merchant - User - Product

<b>Class Name:</b> donor (route)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> - process endpoint request for donor	<b>Collaborators:</b> - Donor - User - Follow

<b>Class Name:</b> User (model)	
<b>Parent Class:</b> None <b>Subclasses:</b> Youth, Donor, Merchant	

<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store username</li> <li>- Store password</li> <li>- Store role</li> </ul>	<b>Collaborators:</b>
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<b>Class Name:</b> Donor (model)	
<b>Parent Class:</b> User <b>Subclasses:</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store name</li> <li>- Store organisation</li> <li>- Store display name</li> <li>- Store profile picture link</li> <li>- Store DOB</li> </ul>	<b>Collaborators:</b>

<b>Class Name:</b> Merchant (model)	
<b>Parent Class:</b> User <b>Subclasses:</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store name</li> <li>- Store profile picture link</li> <li>- Store DOB</li> <li>- Store name of store</li> <li>- Store location of store</li> </ul>	<b>Collaborators:</b>

<b>Class Name:</b> Youth (model)	
<b>Parent Class:</b> User <b>Subclasses:</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store name</li> <li>- Store profile picture link</li> <li>- Store DOB</li> <li>- Store story</li> <li>- Store saving_plan</li> <li>- Store credit_balance</li> </ul>	<b>Collaborators:</b>

<b>Class Name:</b> Donation (model)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store order_id</li> <li>- Store donor</li> <li>- Store youth</li> <li>- Store amount</li> <li>- Store date</li> </ul>	<b>Collaborators:</b>

<b>Class Name:</b> PendingDonation (model)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store order_id</li> <li>- Store donor</li> <li>- Store youth</li> <li>- Store amount</li> </ul>	<b>Collaborators:</b>

<b>Class Name:</b> Product (model)	
<b>Parent Class:</b> None <b>Subclasses:</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Store product name</li> <li>- Store product description</li> <li>- Store price</li> <li>- Store owner</li> <li>- Store product picture</li> </ul>	<b>Collaborators:</b>

## Frontend:

<b>Component Name:</b> HomePage
<b>Parent Component:</b> None <b>Child Component:</b> YouthCard, Layout

<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Show youths</li> <li>- Serve as base path</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>handleResponseError</li> <li>PublicYouth</li> </ul>
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<b>Component Name:</b> LoginPage	
<b>Parent Component:</b> None <b>Child Component:</b> TextField, Layout, Button	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Allow users to login</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>decodeAuthToken</li> <li>setAuthToken</li> <li>UserRoles</li> </ul>

<b>Component Name:</b> SignupPage	
<b>Parent Component:</b> None <b>Child Component:</b> TextField, Layout, Button, Avatar, Tabs	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Allow user to swap between different user types</li> <li>- Allow user to sign up for clicked account type</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>decodeAuthToken</li> <li>UserRoles</li> </ul>

<b>Component Name:</b> ProfilePage	
<b>Parent Component:</b> None <b>Child Component:</b> MerchantProfile, DonorProfile, YouthProfile	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Displays the profile page where users can edit their account settings (ex: name)</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>decodeAuthToken</li> <li>UserRoles</li> </ul>

<b>Component Name:</b> StorePage	
<b>Parent Component:</b> None <b>Child Component:</b> ProductCard, Button	

<b>Responsibilities:</b> - Displays the profile page where users can edit settings specific to their account (youth edit profile, merchant edit products, etc.)	<b>Collaborators:</b> UserRoles decodeAuthToken handleResonseError
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<b>Component Name:</b> UploadPage	
<b>Parent Component:</b> None <b>Child Component:</b> TextField, Button	
<b>Responsibilities:</b> - Displays fields to upload a new product for merchant	<b>Collaborators:</b> UserRoles decodeAuthToken getAuthHeader handleResponseError

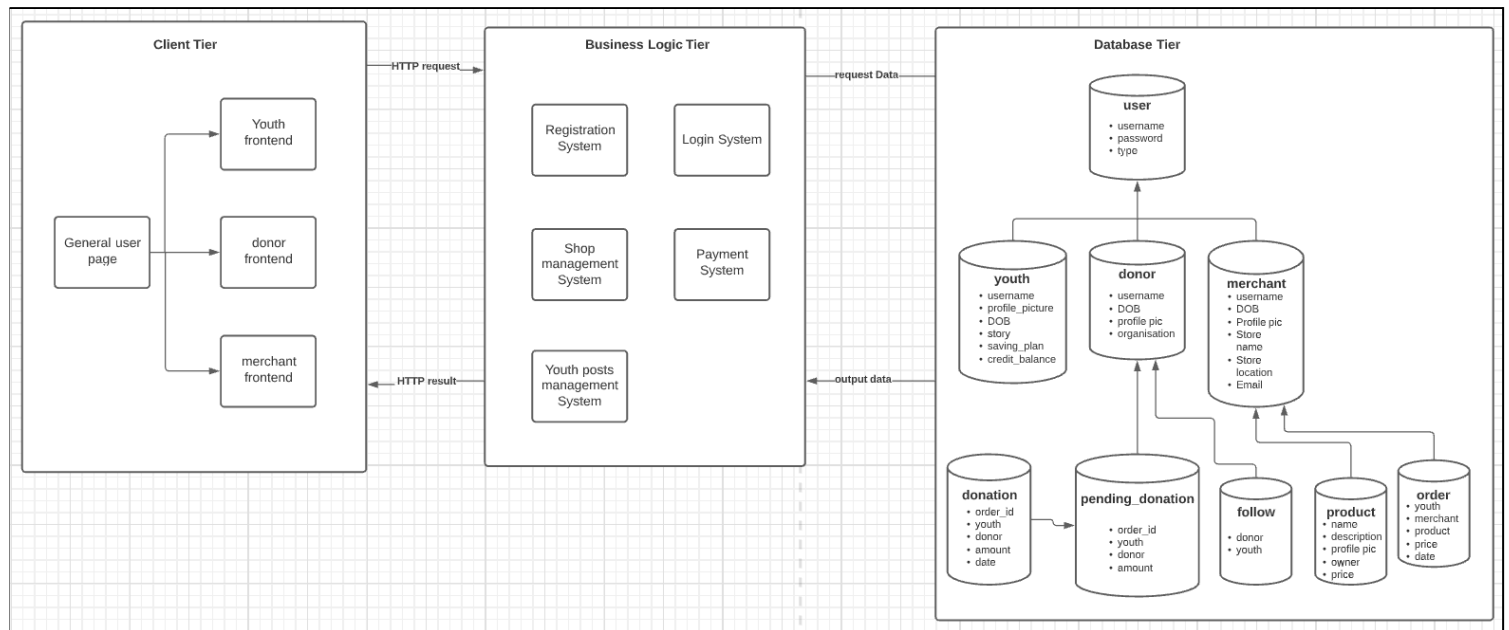
<b>Component Name:</b> UserPage	
<b>Parent Component:</b> None <b>Child Component:</b> DonationCard, Button, Avatar, Chip	
<b>Responsibilities:</b> - Display all details regarding a single youth	<b>Collaborators:</b> getAuthHeader decodeAuthToken handleResponseError UserRoles

<b>Component Name:</b> EditPage	
<b>Parent Component:</b> None <b>Child Component:</b> TextField, Button	
<b>Responsibilities:</b> - Displays fields to update info about a product for merchant	<b>Collaborators:</b> getAuthHeader decodeAuthToken handleResponseError UserRoles



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

# System Architecture Diagram



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