ECOCONNECT: UNITING AN ECO-CONSCIOUS STAKEHOLDERS ONLINE

A Project Proposal
In Partial Fulfillment of the Requirements
For UCB-IT-ELDROID
84155 FRI (7:30 – 10:30 AM)

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Entity Relationship Model

The entity relationship diagram illustrates the connections between entities such as things or concepts within a database. It outlines the entities, their attributes, the relationships among them, and the logical structure of the database. The diagram depicts how the entities in the system are related, highlighting the interconnections between tables using primary and foreign keys.
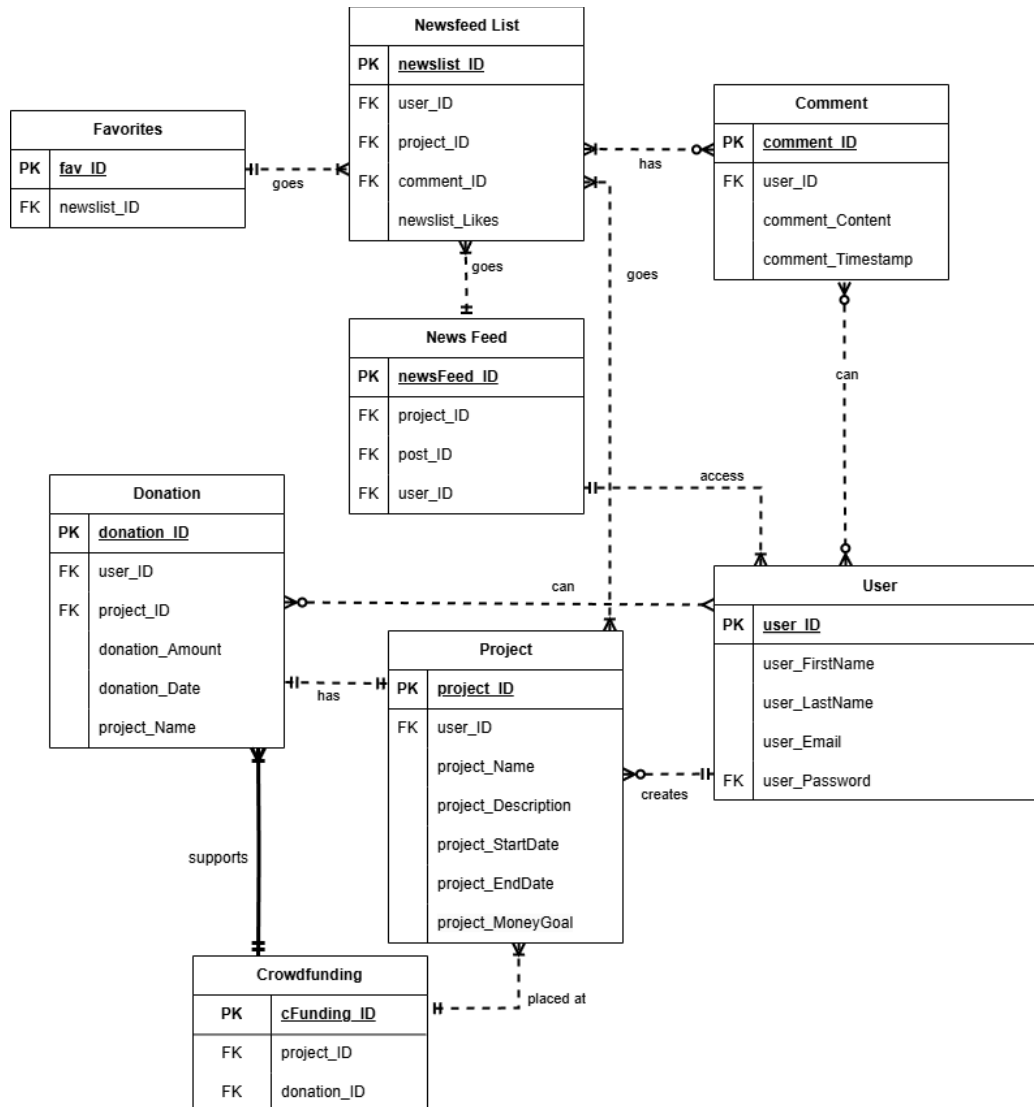
Use Case Diagram

   The use-case diagram below demonstrates the potential interactions between the EcoConnect application and its different user types. This section visually represents the set of operations within the system, showcasing the business processes involved.
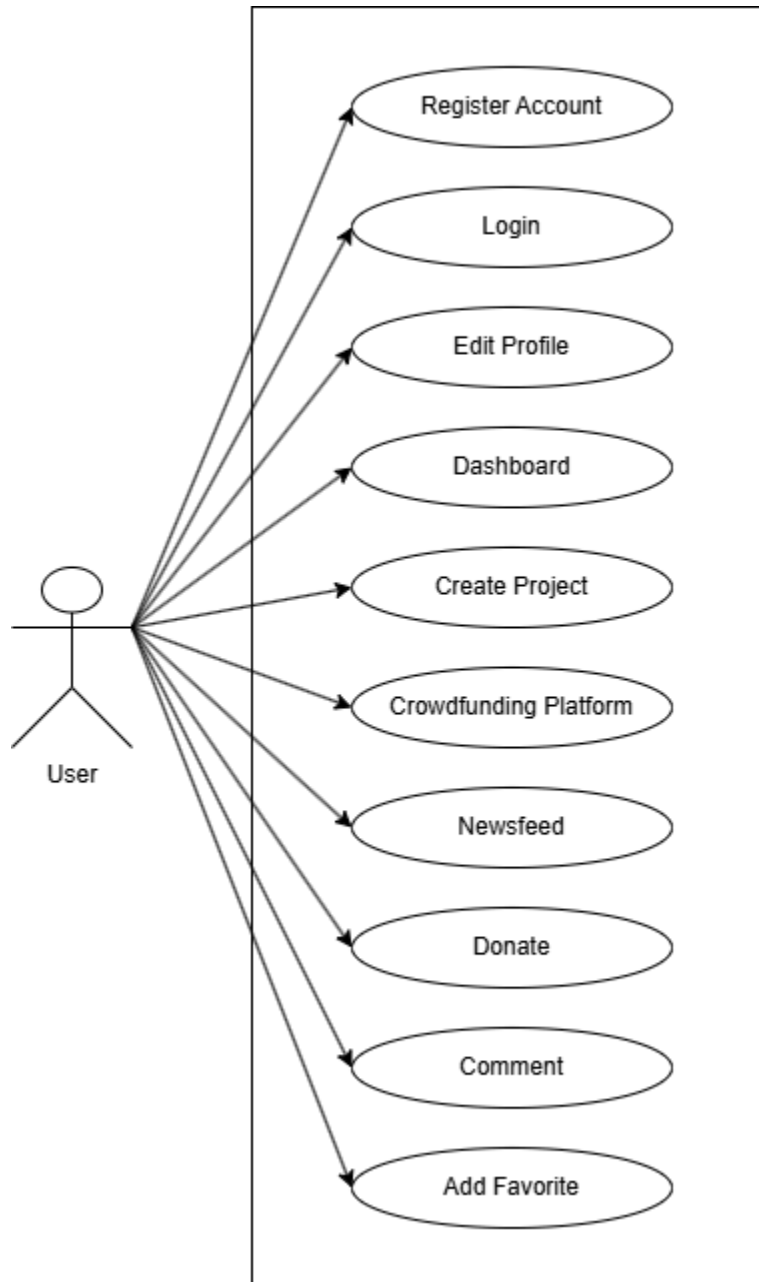
Database Design

      This sector contains an overview of each table in the database, showing the Table Name, Field Name, Data Type, Field Size, Null, and Description

USER ENTITY DATA DICTIONARY

Field	Data Type	Description	Constraints
user_ID	INT	Unique identifier for each user	Primary Key
user_FirstName	VARCHAR(50)	First name of the user	Not Null
user_LastName	VARCHAR(50)	Last name of the user	Not Null
user_Email	VARCHAR(100)	Email address of the user	Unique, Not Null
user_Password	VARCHAR(255)	User's password (encrypted)	Not Null

PROJECT ENTITY DATA DICTIONARY

Field	Data Type	Description	Constraints
project_ID	INT	Unique identifier for each project	Primary Key
user_ID	INT	Identifier of the user who created the project	Foreign Key
project_Name	VARCHAR(100)	Name of the project	Not Null
project_Description	TEXT	Detailed description of the project	Not Null
project_StartDate	DATE	Start date of the project	Not Null
project_EndDate	DATE	End date of the project	Not Null
project_MoneyGoal	DECIMAL(10, 2)	Funding goal for the project	Not Null

DONATION ENTITY DATA DICTIONARY

Field	Data Type	Description	Constraints
donation_ID	INT	Unique identifier for each donation	Primary Key
user_ID	INT	Identifier of the donating user	Foreign Key
project_ID	INT	Identifier of the project receiving the donation	Foreign Key
donation_Amount	INT	Amount of the donation in whole numbers	Not Null
donation_Date	DATE	Date of the donation	Not Null
project_Name	VARCHAR(100)	Name of the project	Not Null

CROWDFUNDING ENTITY DATA DICTIONARY

Field	Data Type	Description	Constraints
cFunding_ID	INT	Unique identifier for crowdfunding entry	Primary Key
project_ID	INT	Identifier of the project	Foreign Key
donation_ID	INT	Identifier of the donation	Foreign Key

NEWSFEED ENTITY DATA DICTIONARY

Field	Data Type	Description	Constraints
newsFeed_ID	INT	Unique identifier for each news feed	Primary Key
project_ID	INT	Identifier of the related project	Foreign Key
post_ID	INT	Identifier of the related post	Not Null
user_ID	INT	Identifier of the user who posted	Foreign Key

NEWSFEED LIST DATA DICTIONARY

Field	Data Type	Description	Constraints
newslist_ID	INT	Unique identifier for each newsfeed list entry	Primary Key
user_ID	INT	Identifier of the user	Foreign Key
project_ID	INT	Identifier of the project	Foreign Key
comment_ID	INT	Identifier of the comment	Foreign Key
newslist_Likes	INT	Number of likes for the newsfeed list entry	Not Null

COMMENT DATA DICTIONARY

Field	Data Type	Description	Constraints
comment_ID	INT	Unique identifier for each comment	Primary Key
user_ID	INT	Identifier of the user who commented	Foreign Key
comment_Content	TEXT	Content of the comment	Not Null
comment_Timestamp	DATETIME	Timestamp of the comment	Not Null

FAVORITES DATA DICTIONARY

Field	Data Type	Description	Constraints
fav_ID	INT	Unique identifier for each favorite entry	Primary Key
newslist_ID	INT	Identifier of the related newsfeed list entry	Foreign Key

User Interface Design

       This section provides a detailed overview of the visual design of the proposed application. The user interface highlights how users will interact with both the app's features and with one another. It offers an in-depth look at the interface and usability, ensuring a user-friendly and engaging experience. The design also prioritizes accessibility, making it easy for users of all abilities to navigate and use the app effectively. By integrating a well-crafted user interface into the design process, our goal is to deliver a seamless experience that addresses the diverse needs of our target audience.

Login Screen		
Name	**Description**	**Parameter**
App Logo	EcoConnect App Image Logo	Logo Image
App Title Text	EcoConnect Word Text Display	Title Text

Welcome Text	Welcome Word Text Display	Welcome Message
Login Description Text	Login Description Text Display	Description Text
Email Address Text	Email Address Label Input Text Display	Email Label
Email Address Input	Email Address Input Edit Text	Email Address Input
Password Text	Password Label Input Text Display	Password Label
Password Input	Password Input Edit Text	Password (15 char maximum length)
Forgot Password Text	Clickable Forgot Password Text Display	Forgot Password
Login Button	Signing in the user to use the Application Features	Login Action Button
Don't have an account? Sign Up Text	Clickable Don't have an account? Sign Up Text Display	Signup Link

SIGN UP PAGE

Name	Description	Parameter
Create New Account Text	Create New Account Text Display	Create Account Link
Already Registered User Text	Clickable Already Registered? Log in Text Display	Login Link
First Name Text	First Name Label Text Display	First Name Label
Full Name Input	First Name Input Edit Text	First Name
Last Name Text	Last Name Label Text	Last Name Label

	Display	
Last Name Input	Last Name Input Edit Text	Last Name
Email Address Text	Email Address Label Text Display	Email Label
Email Address Input	Email Address Input Edit Text	email address
Password Text	Password Label Text Display	Password Label
Password Input	Password Input Edit Text	Password (15 char maximum length)
Re-enter Password Text	Re-enter Password Label Text Display	Re-enter Password Label
Re-enter Password Input	Re-enter Password Input Edit Text	must match the password entered on Password Input
Register Button	Registers the user	Register Action Button

DASHBOARD PAGE

Dashboard

Create Project

Crowdfunding Platform

Recent Activities

Item 0
Item 1
Item 2
Item 3
Item 4
Item 5
Item 6
Item 7
Item 8
Item 9

Name	Description	Parameter
Dashboard Text	Dashboard Text Display	Dashboard Label
Create Project Image	Create Project Display	Project Image
Create Project Button	Create Project for Environmental	Create Project Button
Crowdfunding Platform Image	Crowdfunding Platform Display	Crowdfunding Image
Crowdfunding Platform Button	View crowdfunding platform	Crowdfunding Button
Recent Activities Text	Recent activities viewed	Activities Label

NEWSFEED PAGE
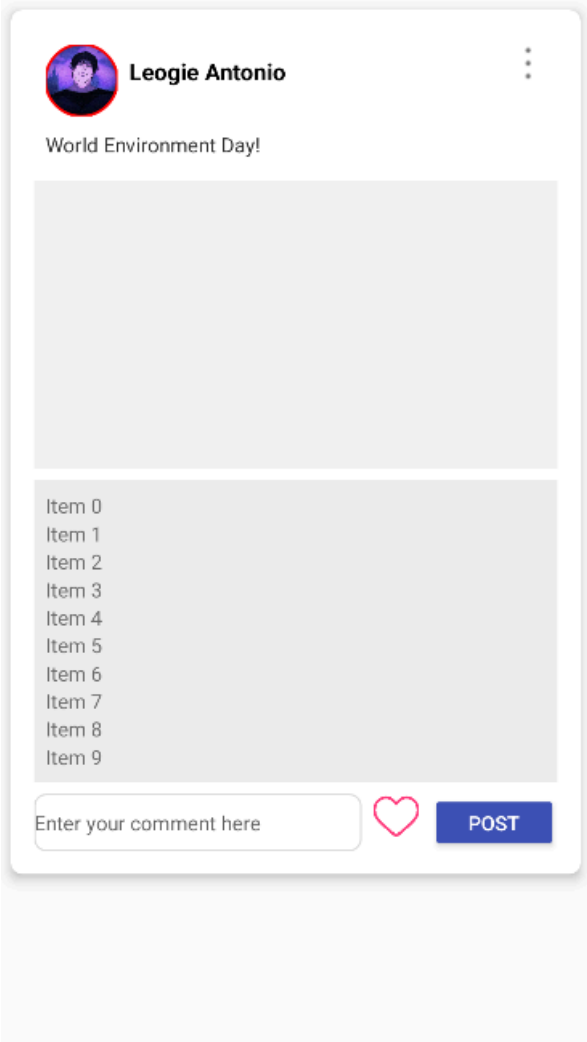
Name	Description	Parameter
Profile Image	Image Display	Profile Picture
Profile Name	Profile Name	User Name
Image View	Image Display	Image View
Comment Recycler View	Comments	Comments List
Comment Text	Comment Text Display	Enter your comment here
Post Button	Post button in newsfeed	Post Action Button

CREATE PROJECT PAGE

Name	Description	Parameter
Create Project Text	Create Project Text Display	Project Creation Label
Title Text	Title Label Text Display	Title Label
Title Input	Title Input Edit Text	Enter title
Description Text	Description Label Text Display	Description Label
Description Input	Description Input Edit Text	Enter description

Add Photo Image	Clickable Add Photo Image Display	Add Image
Add Photo Text	Add Photo Text Display	Add Photo Label
Money Goal Text	Money Goal Label Text Display	Money Goal Label
Money Goal Input	Money Goal Input Edit Text	Enter Money Goal
Deadline Date Text	Deadline Date Label Text Display	Deadline Label
Select Deadline TextView	Select Deadline TextView	Set Deadline
Calendar Image	Clickable Calendar Image	Calendar Icon
Create Button	Creates a Project	Create Project Button

PROJECT DETAILS PAGE

Name	Description	Parameter
Back Button	Returns Back to Previous Screen	Back Navigation
Project Details Text	Project Details Text Display	Project Details Label
Project Image	Project Image Display	Project Picture
Project Title Text	Project Title Text Display	Project Title Label
Donate Image	Redirected to Donation Screen when	Donation Redirect Image

|	clicked	
Donate Text	Donate Text Label Display	Donation Label
Total Money Goal Image	Total Money Goal Image Display	Total Goal Image
Total Money Goal Text	Total Money Goal Text Display	Total Goal Label
Project Details Text	Project Details Text Display	Project Details Label

CROWDFUNDING PAGE

Crowdfunding

Ongoing Crowdfunding projects

Help us to save the planet!
Created by: Swathi

$1M
Goal   DONATE

Clean the nature!
Created by: Raghav

$500K
Goal   DONATE

Plant Trees!
Created by: Kiran

$50k
Goal   DONATE

Dashboard   Fund   Chat   Profile
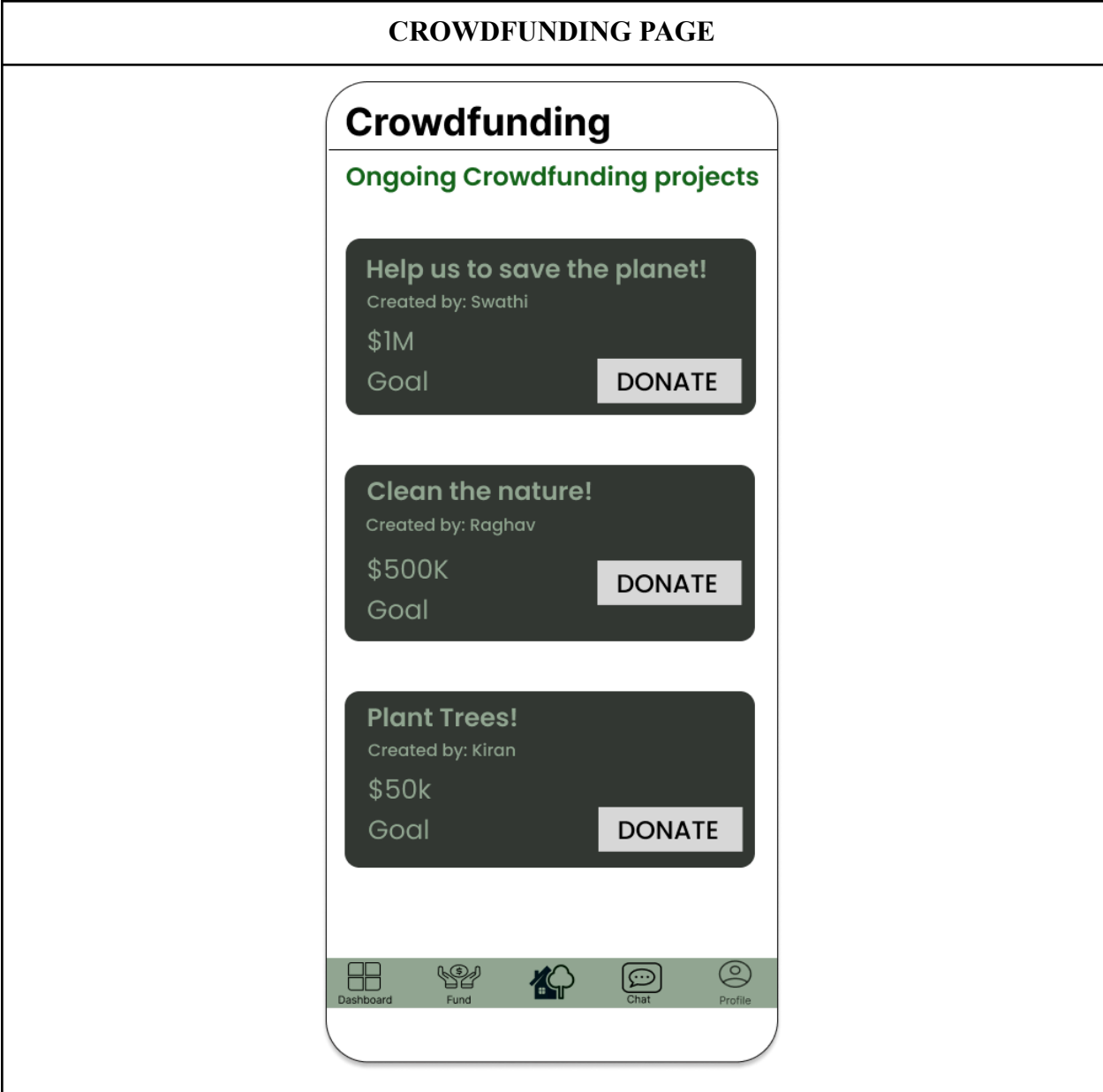
Name	Description	Parameter
Crowdfunding Text	Crowdfunding Text Display	Crowdfunding Label
Ongoing Projects Text	Ongoing Projects Text Display	Ongoing Projects Label
Project List View	List of Projects Created	Project Listings
Project Card View	Project with its Information	Project Card
Donate Button (Card View)	Redirected to Donate Screen when clicked	Donation Button

DONATION

Donation

Help us to
save the planet.

Join our mission to save the planet!
Support our eco-conscious initiatives and
be a part of positive change for a
sustainable future.

$ 56,000

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Contribute   More Info

Name	Description	Parameter
Donation Text	Donation Text Display	Donation Label
Project Title Text	Project Title Text Display	Project Title Label
Project Description Text	Project Description Text Display	Project Description Label
Donation Amount Seek**B**ar	Donation Amount Seek**B**ar Display	Donation Amount Slider
SeekBar Value Text	SeekBar Value Text Display	Slider Value Label
Contribute Button	Redirected to Payment Screen when clicked	Contribution Button

PROFILE

My Profile

Leogie Antonio
Leogie Antonio

EDIT PROFILE

♡ Favorites >

👤 Account >

↪ Log Out >

Name	Description	Parameter
My Profile Text	My Profile Text Display	Profile Label
Username Text	Username Text Display	Username Label
Email Text	Email Text Display	Email Label
Edit Profile Button	Modify your account details here	Edit Profile Button
Favorite Text Button	Quick access to favourites	Favorites Button
Account Text Button	Manage your account settings	Account Settings Button
Logout Text Button	Securely log out	Logout Button

EDIT PROFILE

Name	Description	Parameter
Edit Profile Text	Edit Profile Text Display	Edit Profile Label
Profile Image	Display current profile	Current Profile Picture
Username Edit Text	Editing Username/ current Username display	Username (30 char maximum length)
Email Edit Text	Editing email/ current email display	Email Edit
Password Input	Editing current password(optional)	Password (15 char maximum length)
Save Button	Saving inputs	Save Changes Button

FAVORITES
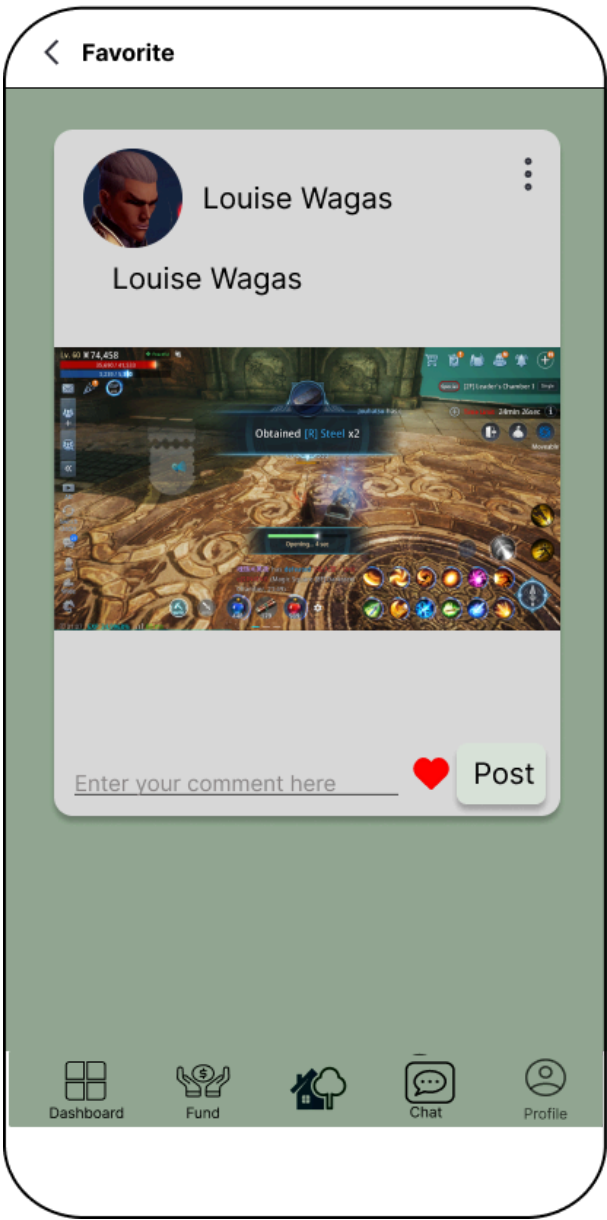
Name	Description	Parameter
Favorites Text	Favorites Text Display	Favorites Label
Profile Image	User Profile Image Display	User Profile Picture
Username Text	Username Label Text Display	Username Label
Menu	Menu icon Display	Icon: Three Dots (Vertical)

Posted Image	Posted Image Display	Image Post
Comment Input Text	Password Label Input Text Display	Comment Input
Like Button	Heart Icon Display	Like Icon
Post Button	Posting Button Display	Post Action Button

ACCOUNT
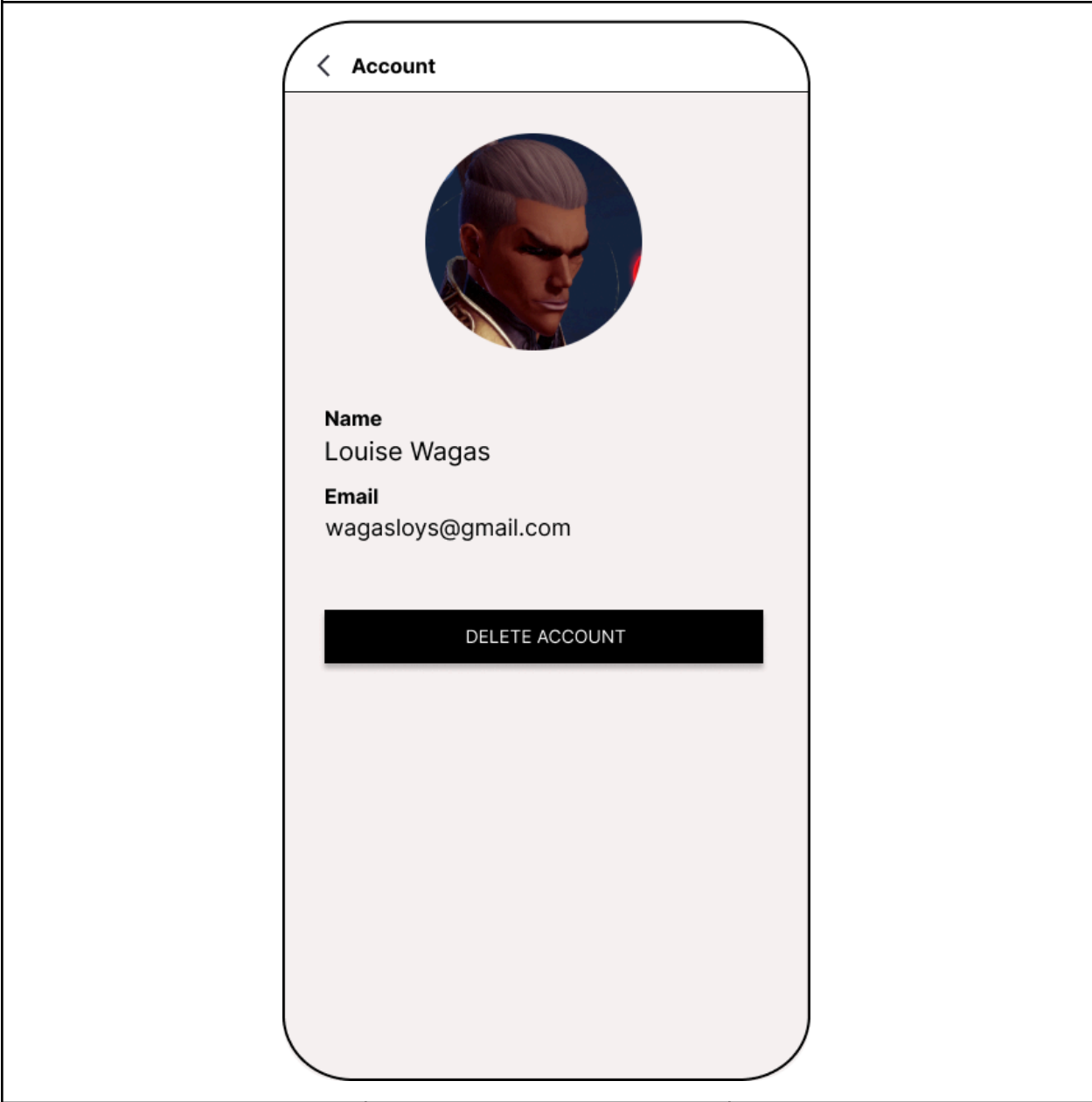
Name	Description	Parameter
Account Text	Account Text Display	Account Label
Profile Image	Profile Image Display	User Profile Picture
Name label Text	Label Display	Name Label
Username Text	Current Username Display	Current Username

Email label Text	Label Display	Email Label
Email Text	Current email Display	Current Email
Delete Account Button	Delete Account	Delete Account Button

Sequence Diagram

The sequence diagram below shows the workflow of how the operations in the StyleSpace mobile application are carried out. It illustrates the interactions between various system components and user actions throughout the process. The diagram helps to visualize the sequential steps and dependencies involved. This makes it easier to understand the overall flow and identify potential areas for optimization.
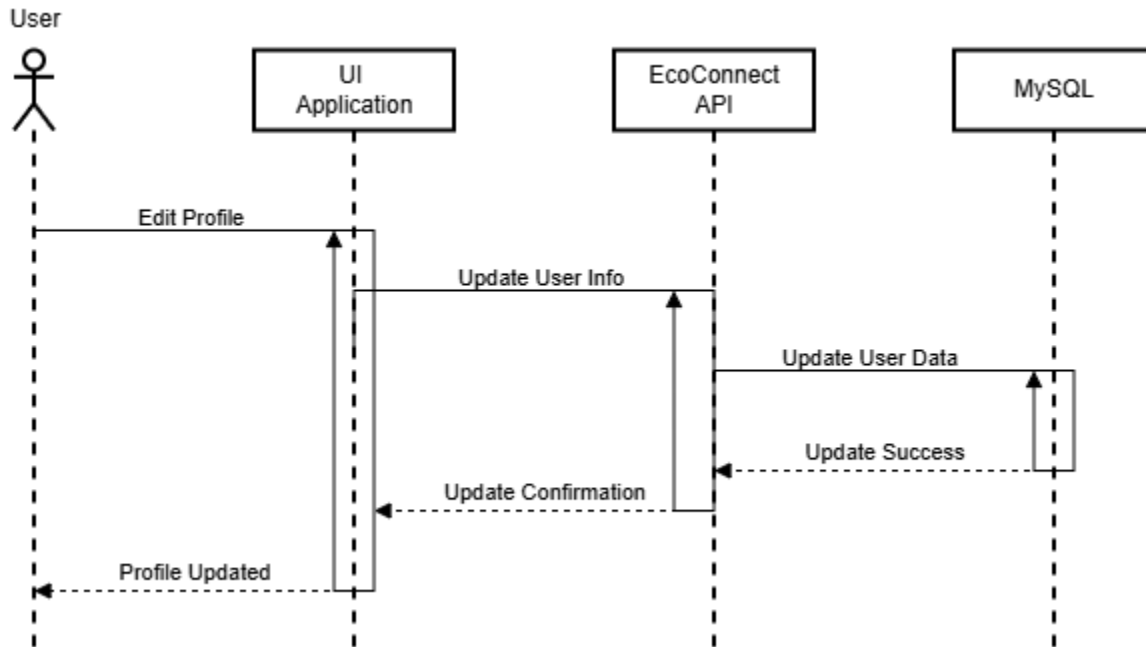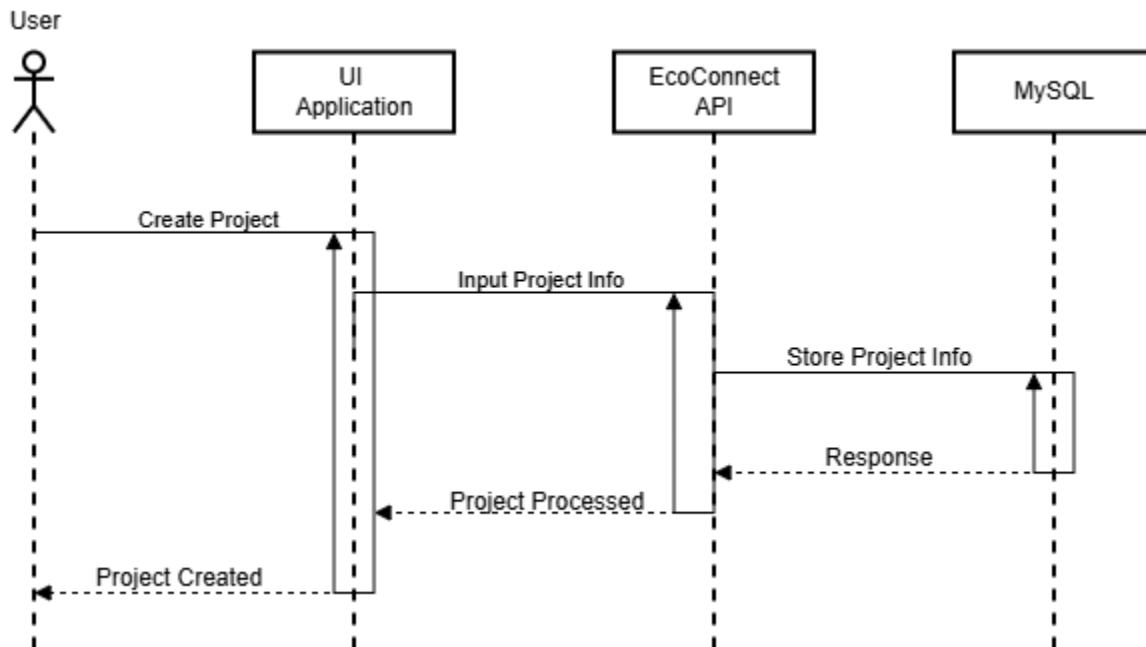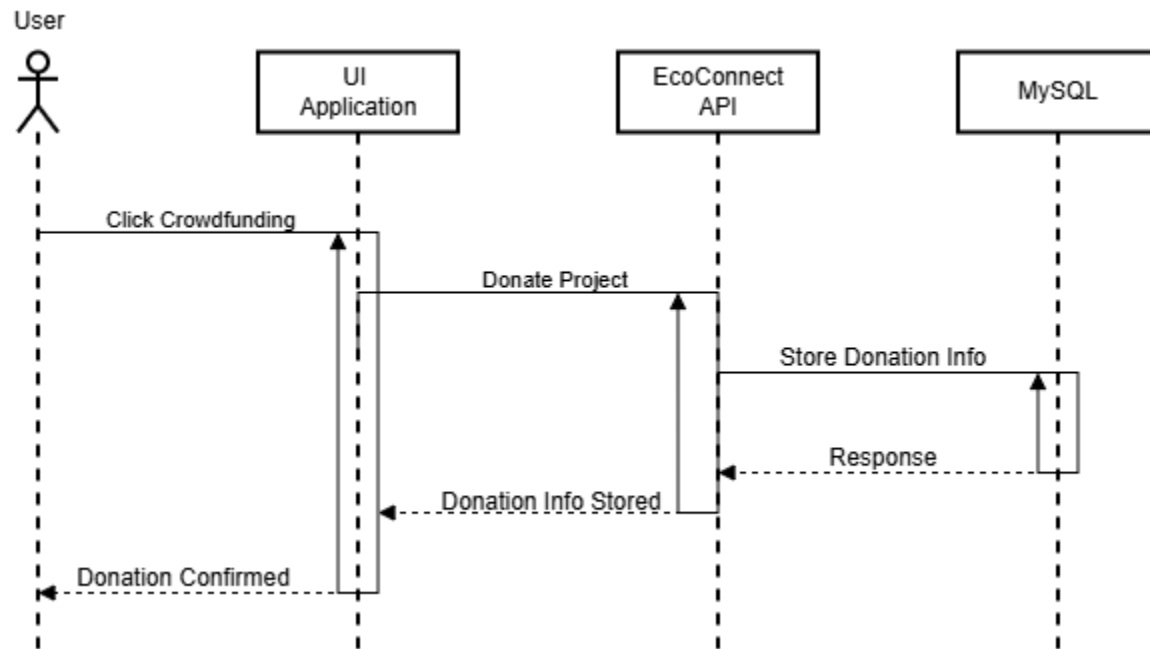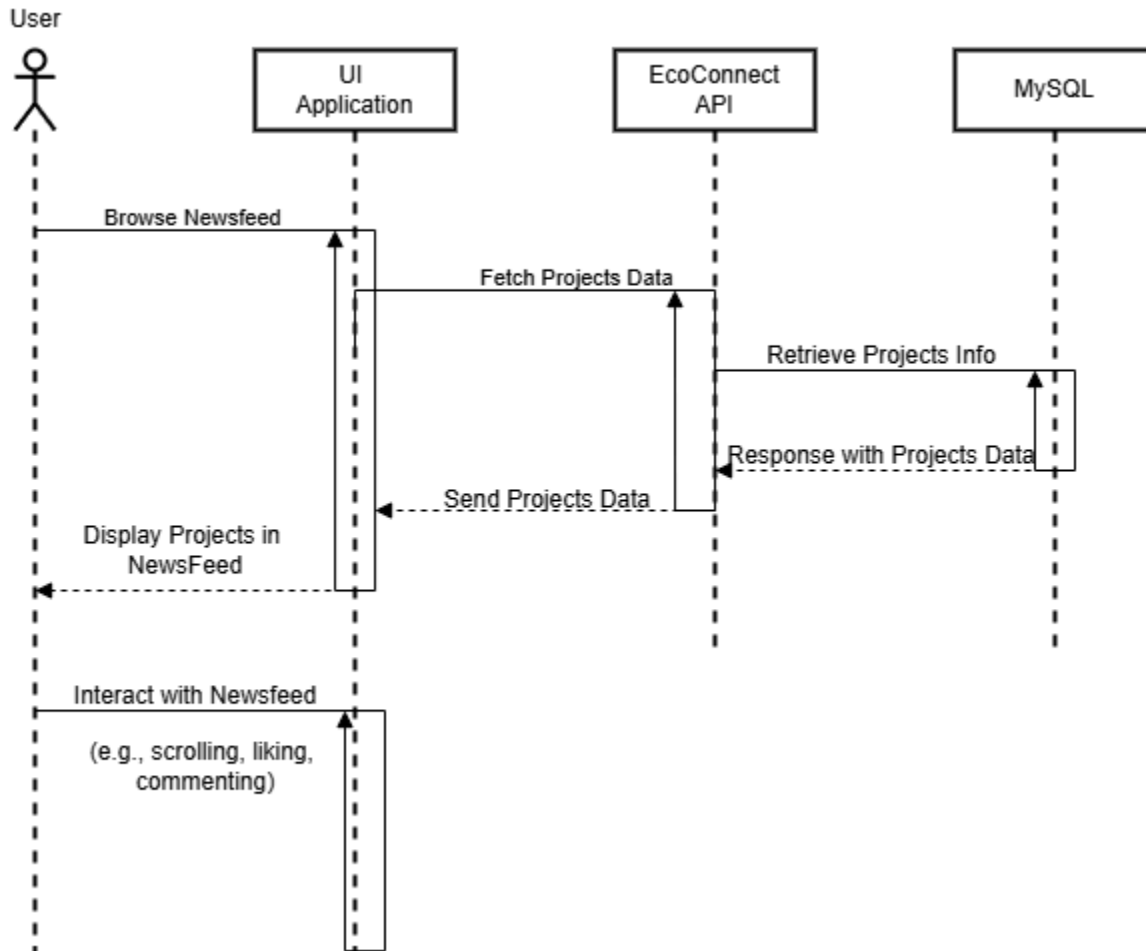
REGISTER
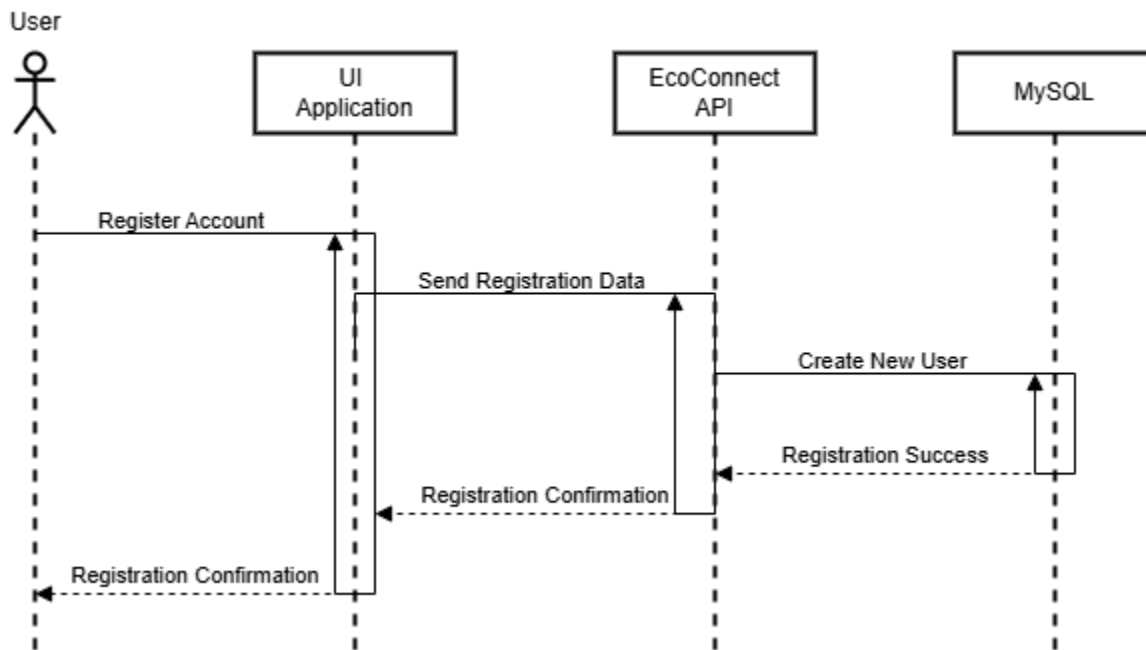
LOGIN
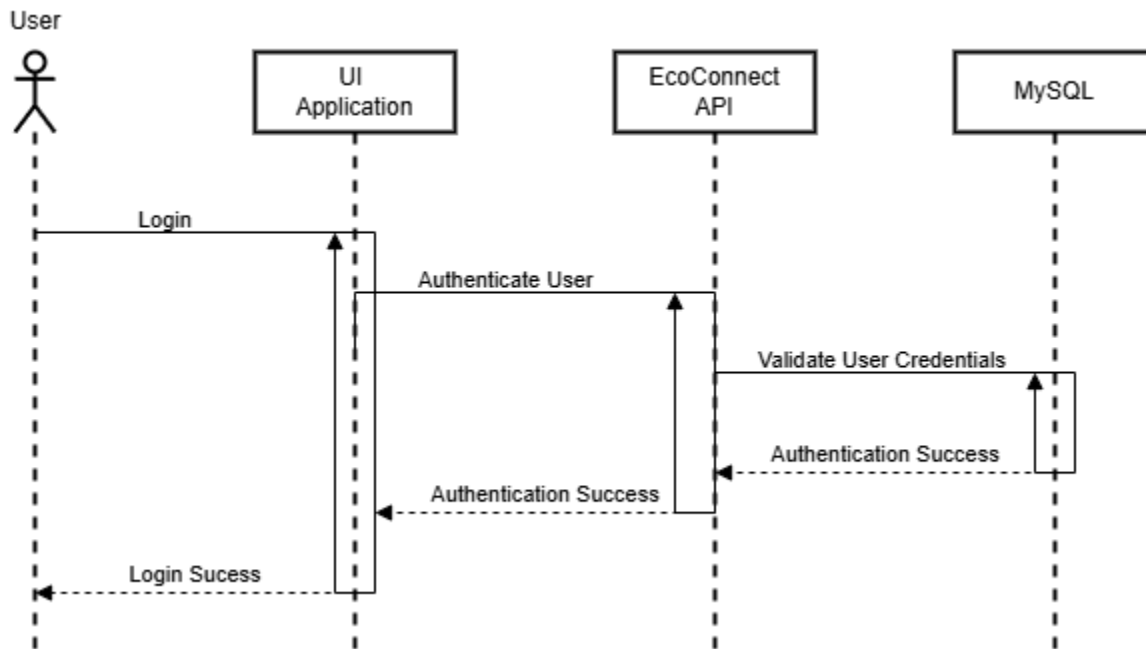
EDIT PROFILE

CREATE PROJECT

CROWDFUND

NEWSFEED

ACCOUNT SETTINGS