

GiGe - Give and Get

**J COMPONENT PROJECT REPORT
For Software Engineering CSE3001**

Winter 2020-21

Submitted by

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Under the Guidance of

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in partial fulfillment for the award of the degree of

B. Tech

in

Computer Science and Engineering



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Vellore-632014, Tamil Nadu, India

School of Computer Science and Engineering

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ABSTRACT

Students often find themselves in the need of daily essentials and that too at an affordable price. Also, there are some students that have too much stuff that they don't even use now. GiGe provides a quick and simple solution to this problem by enabling the users to share their goods in exchange for affordable transactions. It is basically an ecosystem that thrives on people helping each other.

OBJECTIVES

- To implement the knowledge and skills acquired throughout the course duration.
- To develop a user friendly and easy to understand web application to allow users to adapt to the application without difficulty.
- To make an interface which satisfies Neilsen's 10 heuristics for user interface design.
- To provide a smooth transition between the application's pages and provide all important functionalities for using the site.
- To provide users with the ability to recover from mistakes and understand how to prevent them.
- To provide users with the ability to view and rent listed products on the application.
- To provide users with the ability to add new products on the site and update/modify it's details.
- To view all order details and it's status.

AIM

The desired result is to reduce the occurrence of needless purchasing within university campuses, and to also provide a path to earn out of the already existing products in hand. Through this site the users which are mainly intended to be students are expected to develop skills to manage their finances. Imparting this skill at a young age is vital.

SCOPE

Students often find themselves in the need of daily essentials and that too at an affordable price. Also, there are some students that have too much stuff that they don't even use now. GiGe provides a quick and simple solution to this problem by enabling the users to share their goods in exchange for affordable transactions. It is basically an ecosystem that thrives on people helping each other.

Main Features of the Site:

1. Login/Logout/Account creation
2. Product Sell/Give Mode
3. Product Buy/Get Mode
4. Task Creation
5. Searching for products and services
6. Transaction Maintenance(Payments via Google Pay API)
7. Account View
 - a. View and edit profile details
 - b. View and edit product details

INTRODUCTION

Problem Statement

Students often find themselves in the need of daily essentials and that too at an affordable price. Also, there are some students that have too much stuff that they don't even use now. GiGe provides a quick and simple solution to this problem by enabling the users to share their goods in exchange for affordable transactions. It is basically an ecosystem that thrives on people helping each other.

METHODOLOGY

GiGe will be implemented as a platform for sharing goods on a renting model. Users will be able to register/login on the site and gain access to it's GETTER marketplace. Here they will be able to view and rent the products made available by the GIVERS. They may choose to place an order for either of these products or choose to switch over to the GIVER mode. Here they can choose to view their ACTIVE GIVES (if any), or choose to add new GIVES. They can also choose to view and edit the details of their profile or their products.

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6. Transaction Maintenance(Payments via Google Pay API)
7. Account View
 - a. View and edit profile details
 - b. View and edit product details

PROCESS MODEL

Incremental development

- Rather than deliver the system as a single delivery, the development and delivery is broken down into increments with each increment delivering part of the required functionality
- User requirements are prioritized and the highest priority requirements are included in early increments .

Why Incremental development ?

- Requirements of the system are clearly understood(YES- we have defined requirements properly)
- When demand for an early release of a product arises(YES)
- When software engineering team are not very well skilled or trained(YES- we are learning Software Engineering)
- Such methodology is more in use for web application and product-based companies(YES- web-based and product-based)

First Iteration:

1. Welcome landing Page:

Consisting of general information about the website(project)

Navigation bar consisting of essential links of the site

Footer consisting of developer(team) details

2. Login Page:

Takes 2 input fields, User Id and Password, after validation, if found, the user is logged in, else they have to sign up.

The navigation bar and footer will still exist.

3. Sign Up Page:

Input fields for all details such as user id, email, name, contact number, password, etc.

Validation on input values, if passed, added to the database.

The navigation bar and footer will still exist.

Second Iteration:

4. Dashboard (Get Mode) :

A grid-type view of all available products on the campus. Details of the product are gotten from the database.

The navigation bar is modified, profile dropdown button giving the option of **mode, account, and logout**. Search field added which takes input and searches for the key in the database.

Footer remains unchanged.

5. Select “Get” or Select Product Page:

If a user clicks on a product, its specific page is opened giving access to images if available and additional details.

Navbar is still displayed, along with the footer.

An option is given to proceed with the purchase. The giver of the product is seen and can be contacted from here.

6. Upload “Give” Page(Give Mode):

The seller has to upload details and price and image of the product in a form containing input fields as required.

7. Give Status:

Status display of all items uploaded by the seller.

8. Account Page

Third Iteration:

9. Edits Page:

Users can edit the details regarding their profiles or any product that they may have uploaded on the site.

10. Transaction Page:

Integration of a payments portal using Google PAy API.

Task List and Schedule: (Iteration 1)

Task Name	Description	Duration (in days)	Dependency	Member Responsible
T1	Design LANDING PAGE	1		Aaditya Pareek Atul Agarwal
T2	Frontend of Landing Page	2	T1	Atul Agarwal Aaditya Pareek Tanmay Bansal
T3	Design Of Login/Signup Page	1		Aaditya Pareek Atul Agarwal
T4	Frontend of Login/Signup Page	2	T3,T2	Atul Agarwal Aaditya Pareek Tanmay Bansal
T5	Form Validation, Client Side	2	T4	Atul Agarwal Aaditya Pareek Tanmay Bansal
T6	Login/Signup Backend Dev	2	T5	Tanmay Bansal Aaditya Pareek Atul Agarwal
T100	Documentation 1	3	T6	Tanmay Bansal Aaditya Pareek Atul Agarwal

Task List And Schedule(ITERATION 2):

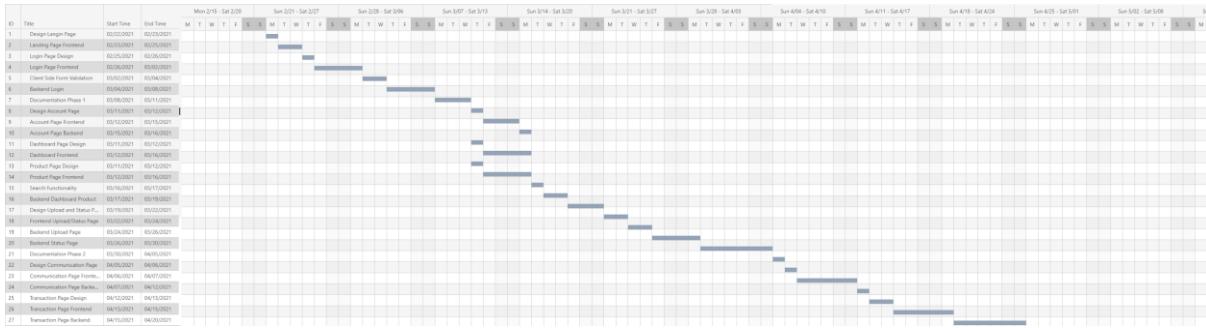
Task Name	Description	Duration (in days)	Dependency	Member Responsible
T7	Account Page Design	1	T6	Aaditya Pareek Atul Agarwal
T8	Account Page Frontend	1	T7	Atul Agarwal Aaditya Pareek Tanmay Bansal
T9	Account Page Backend	1	T8	Tanmay Bansal Atul Agarwal Aaditya Pareek
T10	Dashboard page design	1		Aaditya Pareek Atul Agarwal
T11	Frontend Dashboard	2	T10	Atul Agarwal Aaditya Pareek Tanmay Bansal
T12	Product page design	1		Aaditya Pareek Atul Agarwal
T13	Product page frontend	2	T12	Atul Agarwal Aaditya Pareek Tanmay Bansal
T14	Search Function	1	T13	Tanmay Bansal Atul Agarwal Aaditya Pareek
T15	Backend for Dashboard and Product pages	2	T14	Tanmay Bansal Atul Agarwal Aaditya Pareek
T16	Design Upload Page and Status Check Page	1	T15	Aaditya Pareek Atul Agarwal

T17	Frontend for Upload and Status	2	T16	Atul Agarwal Aaditya Pareek Tanmay Bansal
T18	Backend for Upload	2	T17	Tanmay Bansal Atul Agarwal Aaditya Pareek
T19	Backend for Status Page	2	T17	Tanmay Bansal Atul Agarwal Aaditya Pareek
T101	Documentation 2	4	T18,T19	Tanmay Bansal Atul Agarwal Aaditya Pareek

Task Schedule: Iteration 3:

Task Name	Description	Duration (in days)	Dependency	Member Responsible
T20	Communication Page Design	1		Aaditya Pareek Atul Agarwal
T21	Communication Page Frontend	1	T20	Atul Agarwal Aaditya Pareek
T22	Communication Page Backend	3	T21	Tanmay Bansal Atul Agarwal Aaditya Pareek
T23	Transaction Page Design	1	T22	Aaditya Pareek Atul Agarwal
T24	Transaction Page Frontend	2	T23	Atul Agarwal Aaditya Pareek Tanmay Bansal
T25	Transaction Page Backend	3	T24	Tanmay Bansal Atul Agarwal Aaditya Pareek
T102	Final Documentation	4	T25	Tanmay Bansal Atul Agarwal Aaditya Pareek

GANTT CHART



Increment 1

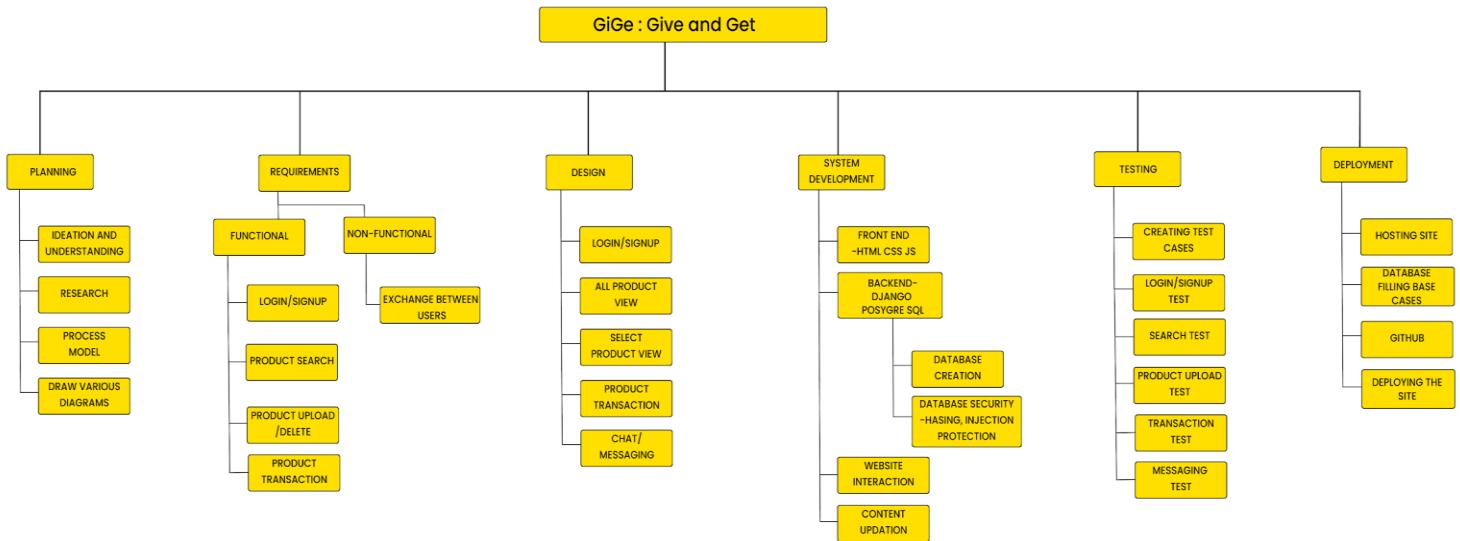
Increment 2

8	Design Account Page	03/11/2021	03/12/2021	
9	Account Page Frontend	03/12/2021	03/15/2021	
10	Account Page Backend	03/15/2021	03/15/2021	
11	Dashboard Page Design	03/11/2021	03/12/2021	
12	Dashboard Frontend	03/12/2021	03/16/2021	
13	Product Page Design	03/11/2021	03/12/2021	
14	Product Page Frontend	03/12/2021	03/16/2021	
15	Search Functionality	03/16/2021	03/17/2021	
16	Backend Dashboard Product	03/17/2021	03/19/2021	
17	Design Upload and Status P...	03/19/2021	03/22/2021	
18	Frontend Upload/Status Page	03/22/2021	03/24/2021	
19	Backend Upload Page	03/24/2021	03/26/2021	
20	Backend Status Page	03/26/2021	03/30/2021	
21	Documentation Phase 2	03/30/2021	04/05/2021	

Increment 3

Work Breakdown Structure

WBS : WORK BREAKDOWN SYSTEM



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Operating Environment

a. Hardware Requirements:

Hardware requirements are expected to be minimal. The most important part will be a fast hard drive for the MongoDB Database(PostgreSQL) to reside on and optimal network speed. The client side of the application is very portable since the only required piece of software is a W3c Compliant Web Browser. Microsoft Windows, *Nix, and Mac Os all have browsers that will work with the application. Following are the minimum specifications for the various computers and other hardware components:

I. Server Requirements:

- a. Minimum CPU - 1.9 gigahertz (GHz) x86- or x64-bit dual core processor with SSE2 instruction set
- b. Minimum Disk Space: 2GB RAM
- c. Minimum Memory: 512 MB
- d. Bandwidth greater than 50 KBps (400 kbps)
- e. Latency Under 150ms
- f. Required Software - Django, MongoDB, HTML, CSS, Javascript, PostSQL

II. Client Requirements:

- a. Minimum CPU: 1.9 gigahertz (GHz) x86- or x64-bit dual core processor with SSE2 instruction set
- b. Minimum Disk Space: 512 MB
- c. Minimum Memory: 256 MB
- d. Bandwidth greater than 50 KBps (400 kbps)
- e. Minimum Display: Super VGA with a resolution of 1024 x 768
- f. Required Software: W3C Compliant Web Browser

b. Software Requirements:

There are no explicit requirements for client side users(except Internet Browser) as the product is to be implemented as a website.

However the development team throughout the course of development the software technologies used are:

1. Project Libre
2. MS Project
3. Online Visual Paradigm
4. projectmanager.com
5. Visual Studio
6. Figma

System Features

The major services and functional requirements for the product can be illustrated by system features.

4.1 Login/Signup

4.1.1 Description and Priority

A login/signup feature is one of the most essential and important features for a user based website. It allows users to create sessions and makes it possible to identify users and store or retrieve their information from the database. It is one of the most important features of any site and its functioning and execution have to be smooth.

4.1.2 Stimulus/Response Sequences:

1. User clicks on Login Link on Home Page
2. Site Connects to Login Page, Requests User to fill input fields, Username, and Password
3. User Fills the form and Clicks on Submit Button
4. Site Connects to DATABASE and takes user's input values and checks for a match in the database
5. If found, Success, move to Marketplace page
6. Else, Display Invalid input, ask to fill the form again, or Sign Up for the site.

4.1.3 Functional Requirements

REQ-1: The interaction protocol between Web Server-Client, Client-Server is defined.

REQ-2: User Details Table Created in Database

4.2 Product Sell Mode:

4.2.1 Description and Priority:

One of the main features of the site. A Sell mode will allow users to add their products for sale on our site or check the current status of their existing products. It is a high priority feature of the site. The feature allows users to earn Gicoins on the site.

4.2.2 Stimulus-Response Sequence:

1. User Clicks on Give Button in the Navigation Bar.
2. Site Sends Request containing user token id to the server.
3. The server responds with appropriate values from the database.
4. Site Displays list of all uploaded products by the user, a button exists on the top right to list new products on the marketplace.
5. User clicks on upload new product, the server responds with a form for product details.
6. The user fills the form and clicks on the submit button.
7. Form data is sent to the server and values are updated in the product database.

4.2.3 Functional Requirements:

REQ 1: The interaction protocol between Web Server-Client, Client-Server is defined.

REQ 2: Product Details Table in Database.

REQ 3: Converting Data tokens from frontend to backend query language.

4.3 Product GET Mode:

4.3.1 Description and Priority:

The other end to product upload feature. A GET mode allows users to view the marketplace of the site. It is the first page that loads on successful login/sign up. The products are listed used CSS Grid and Box Models to make it easy for users to navigate and get a better understanding of the uploaded product.

4.3.2 Stimulus/Response Sequences:

1. Site Displays all listed products after successful user login/sign up.
2. User clicks on add to cart option for any product after viewing details.
3. Server stores all details in a javascript object.
4. The user clicks on the cart option.

5. The server receives requests and passes tokens to the transaction page.

4.3.3 Functional Requirements:

REQ 1: The interaction protocol between Web Server-Client, Client-Server is defined.

REQ 2: Product Details Table in Database.

REQ 3: Converting Data tokens from backend to frontend design.

4.5 Product Search:

4.5.1 Description and Priority:

In the GET mode, the user is given a marketplace site. Scrolling and looking for a specific product will be tedious and inefficient. Hence a search feature for the page becomes important and necessary.

4.5.2 Stimulus/Response Cycle:

1. A search input form will be present in the navigation bar.
2. The user enters the keyword and submits the form.
3. The values are sent to the server and run against keywords in the database.
4. If matches are found, data is sent back to the client-side and only the keyword accepted products are displayed.

4.5.3 Functional Requirements:

REQ 1: The interaction protocol between Web Server-Client, Client-Server is defined.

REQ 2: Keyword Attribute in product relation. REQ 3: Efficient searching algorithm.

Other Nonfunctional Requirements

5.1 Performance Requirements

In order to maintain an acceptable speed at a maximum number of uploads allowed from a particular customer as any number of users can access the system at any time. Also, the connections to the server will be based on the attributes of the user like his location and the server should be available around the clock.

5.2 Safety Requirements

The passwords of the users should be hashed. Also other sensitive data cannot be leaked, so data safety protocols become necessary. Routine backups of existing databases to ensure data integrity and no loss in case of system failure.

5.3 Security Requirements

As it will be an online system, the database can be exposed to injection attacks, protection against these becomes a must and of utmost importance.

5.4 Software Quality

Attributes Reliability :

The solution should provide reliability to the user that the product will run with all the features mentioned in this document are available and executing perfectly. It should be tested and debugged completely. All exceptions should be well handled.

Accuracy :

The solution should be able to reach the desired level of accuracy. But also keeping in mind that this prototype version is for proving the concept of the project.

Security:

Security is a priority when a software is tested especially when it is built in such a way that it contains some crucial information when leaked can cause harm to business. The system will have the ability to protect data and defend information from unauthorized access. Security also includes authorization and authentication techniques, protection against network attacks, data encryption, and other risks.

Design Goals and Guidelines

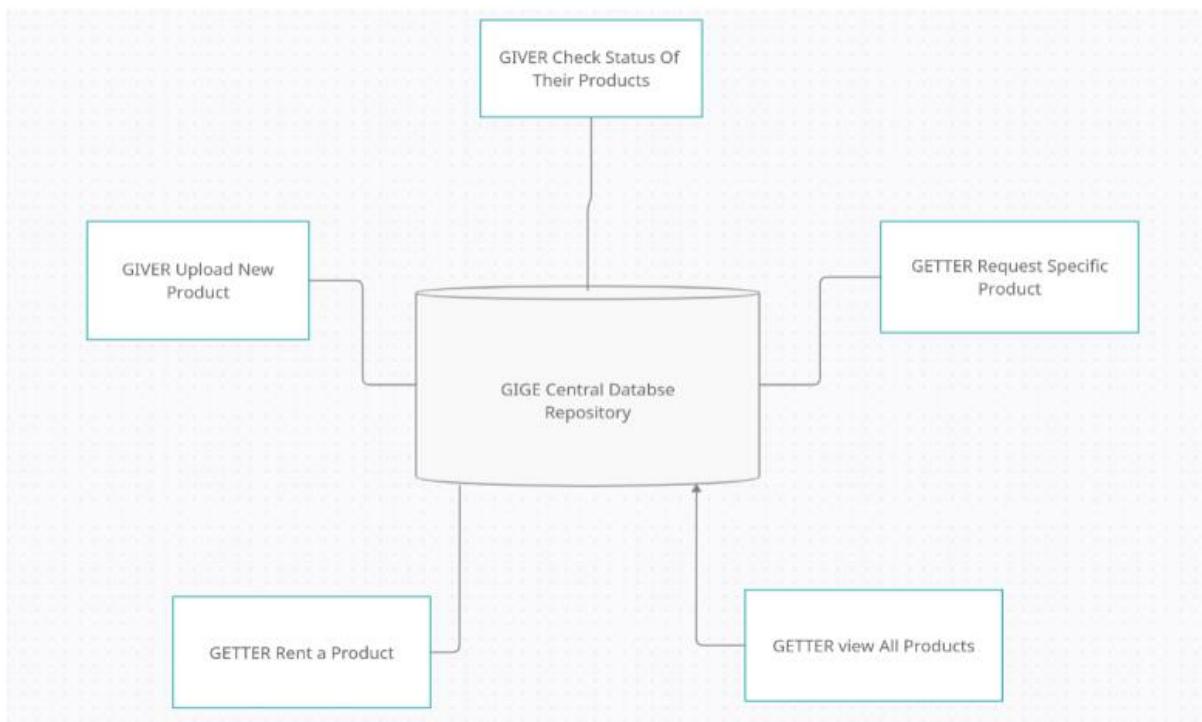
The goals and principles followed by the design implementation of the project include:

1. Consistency: GiGe aims to provide a consistent user interface with all visual packs utilized by the website being consistent throughout.
2. Guidance: A well defined and developed navigation bar to be present in all pages of the site with links to all important and the most probable choice of the user provided.
3. Error Prevention: Being a user-oriented website GiGe, will always aim to provide propped visual cues for users to ensure minimal error occurrence.
4. Minimal Surprises: The user will always be in control. The complete response set of the site to every action is expected and only on call.
5. Recognize rather than Recall: The site aims to minimize the memory load on the user and hence aims to use a recognition model rather than asking the user to recall their query. Although a search option is provided for when the user wants to use it.

System Architecture

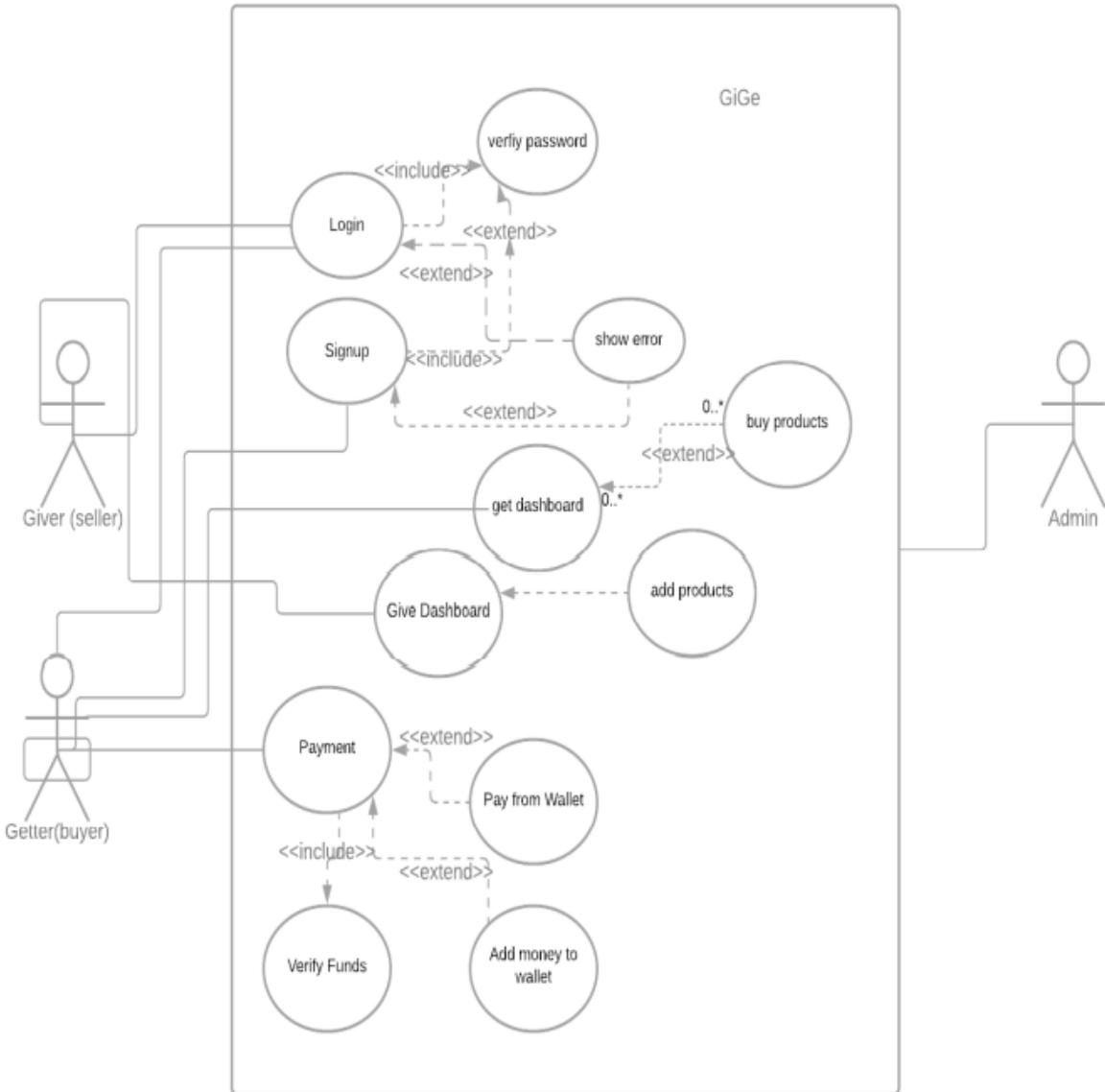
The Structural Architectural Model followed by the system is a Repository Model, which emphasizes on a central database for all systems to follow and access.

A central database becomes critical when implementing a web-based project. This model provides a concurrent maintenance of the system while also providing easy access for the technical team. With GiGe, there is a central database and all subsystems such are described below:



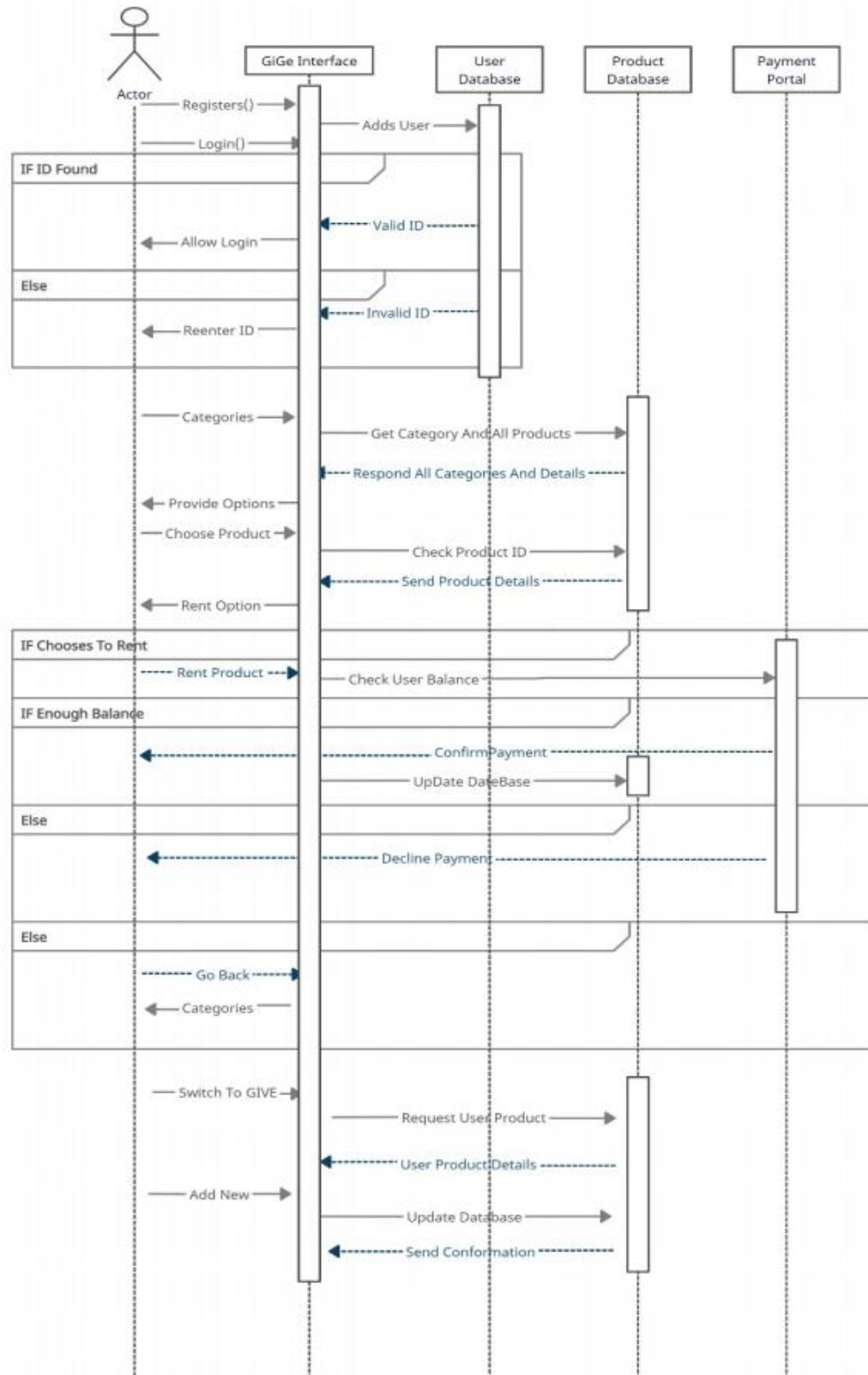
The data for the website is stored on a centralized database where well defined schemas exist for all backend functionality requirements. The various processes of the site all access and request data from the central database and interpret it for the user interface application.

USE CASE DIAGRAM

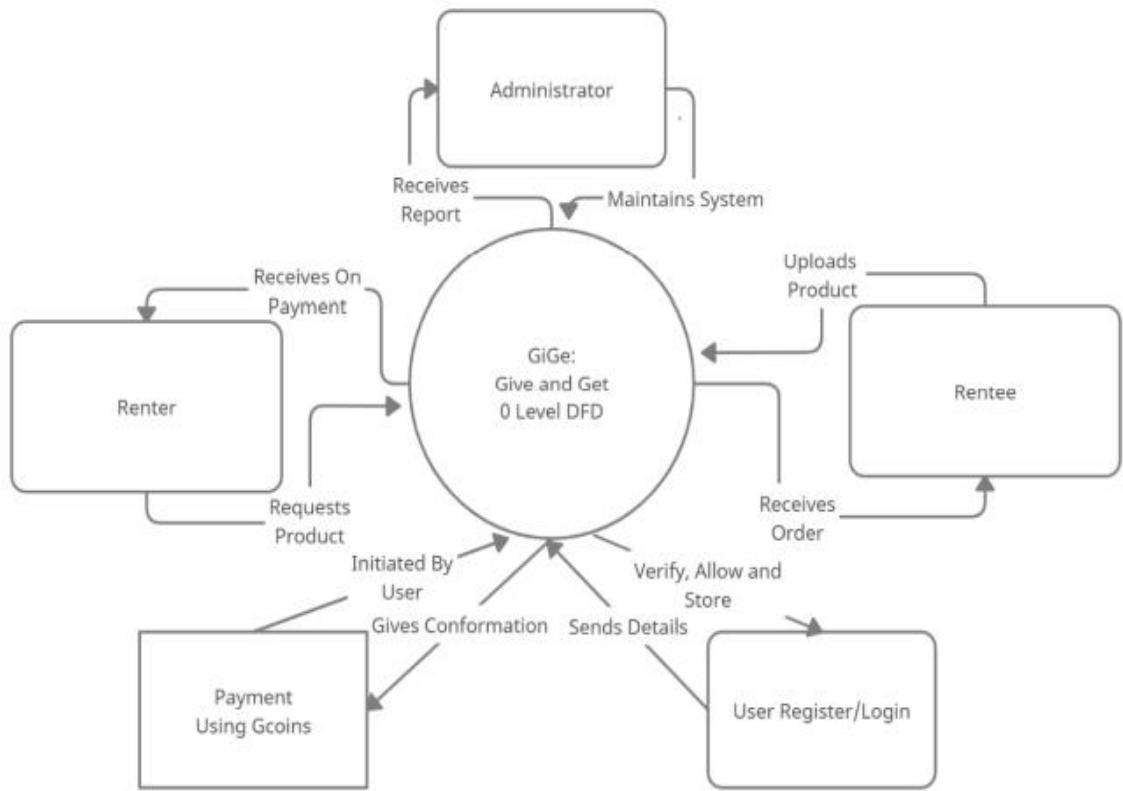


This use case diagram aims to provide a clear understanding on how our site and system function. It has all the major functionalities of the system and also how each kind of intended user will interact with them. This diagram will be useful for anyone aiming to gain an insight into the system and also help the development team in the proper implementation of the system.

SEQUENCE DIAGRAM



DATA FLOW DIAGRAM



The data flow diagram for the system implements the data handling in and out of the system. It has the interactions between all roles that a user might take while using the system.

TESTING

Test Case ID: GT-01	Test Case Name: User Validation- Login		
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
<p>1. Enter the input fields for Username and Password and click Login. The following subcases arise:</p> <ul style="list-style-type: none"> a. Invalid format for Username or Password or Both b. Correct Username, incorrect Password c. Incorrect Username d. Correct Username and Password. 	<ul style="list-style-type: none"> a. System must inform the user of the error and elucidate the correct format. b. System must inform the user of their incorrect password. c. System must display invalid messages. d. System must validate and let the user access the site. 	<ul style="list-style-type: none"> a. System informs the user of format error and correct format is displayed. b. System displays incorrect password notification. c. System asks user to register using the signup page. d. System verifies the user and proceeds to the GET page. 	<p>PASS PASS PASS PASS</p>

Test Case ID: GT-02	Test Case Name: User Registration - Sign Up		
<p>Objectives/Description: The objective is to create a new user from our signup portal.</p> <p>On any error appropriate steps must be taken to advise users on how to recover from them.</p> <p>On success, a new user must be created with the details provided by the user and the user must be redirected to the login page.</p>			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
<p>1. Enter all the details required on the SignUp page and click the Submit button. The following subcases arise:</p> <ul style="list-style-type: none"> a. Invalid format entered, checked during client side validation. b. Invalid data entered, checked during server side validation. c. Correct detail entered 	<ul style="list-style-type: none"> a. System must inform the user of the error and elucidate the correct format. b. System must inform the user of the error and elucidate the correct format. c. System must create the new user and redirect the user to the login page. 	<ul style="list-style-type: none"> a. System informs the user of format error and correct format is displayed. b. System informs the user of format error and correct format is displayed. c. System creates a new user and redirects the user to the login page. 	<p>PASS</p> <p>PASS</p> <p>PASS</p>

Test Case ID: GT-03	Test Case Name: Product Search		
Objectives/Description: On successful login the user accesses the GET page, where it can look at multiple products available on the site. A search functionality is provided so as to make the users task of finding a preferred product easier.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
<ol style="list-style-type: none"> 1. User selects the Search input field in the navigation bar. 2. The user enters a specific product's name or some keywords for the preferred product. 3. Click on search icon-button 	<p>All products related to the search query must be displayed.</p>	<p>In case any product(s) matching the search query tag are found in the database, they are displayed.</p> <p>Else, an appropriate message is displayed.</p>	PASS

Test Case ID: GT-04	Test Case Name: Product Category Search		
Objectives/Description: In case a user has not decided on a particular product but wants to look for products in a particular category.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
<p>Method 1:</p> <ol style="list-style-type: none"> 1. Click on the Category option in the navigation bar. 2. Select category from dropdown list. <p>Method 2:</p> <ol style="list-style-type: none"> 1. Scroll through the GET page.(all products are listed under category subheaders) 2. When desired category is visible click on see more to view all products under the category. 	<p>All products listed under the particular category must be displayed.</p>	<p>A page displaying all results pertaining to the particular category is loaded.</p>	PASS

Test Case ID: GT-05	Test Case Name: Product Select		
Objectives/Description: When the user finds their desired product they must be able to view all its details so as to make their decision final.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
<ol style="list-style-type: none"> 1. Locate the desired product. 2. Click on GET button. 	<p>All details pertaining to the product must be made available.</p>	<p>A specific product page loads, displaying all available product details.</p> <p>A button to rent the product is available.</p>	PASS

Test Case ID: GT-06	Test Case Name: Product Rent		
Objectives/Description: When a user has viewed all product details and decides to rent it.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
1. Click on Rent Product Button	An order for the product must be placed and the purchaser and the customer must be able to see their respective orders.	The order database for both the purchaser and seller are updated, and can be viewed on their respective ORDERS page.	PASS

Test Case ID: GT-07	Test Case Name: Profile View and Update		
Objectives/Description: A registered user must be able to view and edit their details on the site.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
1. Click on Profile option on the navigation bar.	First the profile page with correct details of the user must be visible.	The correct details of the user are fetched and displayed.	PASS
2. Make any changes if wanted by entering a new value in the input field.	Ability to edit the existing values.	Input fields with option to enter new values are available.	PASS
3. Save the changes made by clicking the Submit button.	Proper save of the updated values.	Submit button successfully saves all changes in the database.	PASS

Test Case ID: GT-08	Test Case Name: Product Upload		
Objectives/Description: Allows users to upload one of their products for rent on the site, with the ability to provide all details for the same.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
1. Click on add item Button	1. System should redirect the user to a page where he can enter the details of the item	1. The user is redirected to a page where he can enter the details of the item.	PASS
2. Enter the details of the item and click Submit. a. The format of the details	a. System must inform	a. System informs the user of format error	PASS

entered are wrong	the user of the error and elucidate the correct format.	and the correct format is displayed.	
b. The same product is already listed by the same user.	b. System must inform the user that he has already listed the same product before and should not list it again.	b. Systems informs the user that the user has already listed the same product and does not create a duplicate product.	PASS
c. The format of the details entered are correct	c. System must list the new product and redirect the user to the Give page.	c. System lists the new product and redirects the user to the Give page	PASS

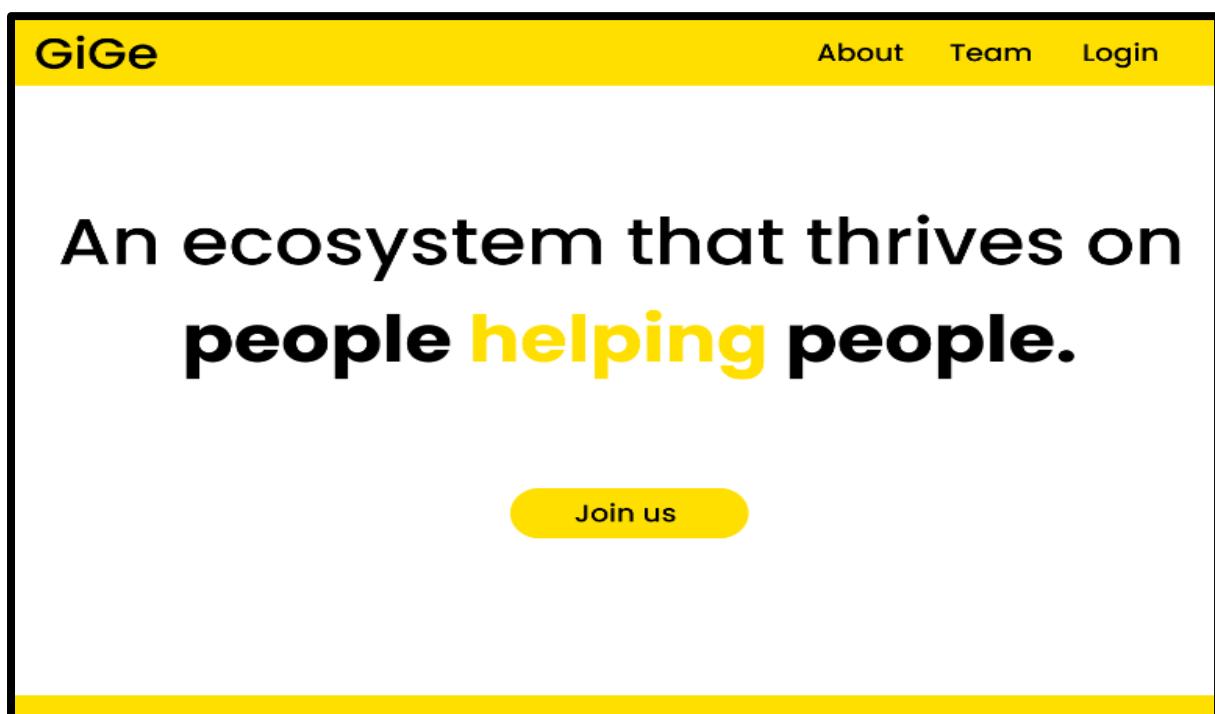
Test Case ID: GT-09	Test Case Name: Product Edit		
Objectives/Description: Allow a user to edit the details of a product they have uploaded on the site and save these changes.			
Sequence of Steps	Expected Result	Actual Result	Pass/Fail
1. Click on a product on the YOUR GIVES page.	First the product edit page with correct details of the product must be visible.	The correct details of the product are fetched and displayed.	PASS
2. Make any changes if wanted by entering a new value in the input field.	Ability to edit the existing values.	Input fields with option to enter new values are available working.	PASS
3. Save the changes made by clicking the Submit button.	Proper save of the updated values.	Submit button successfully saves all changes in the database.	PASS

DESIGN

Landing/Home Page:

On accessing the site the user first has the landing page on view. Here they can Choose from 3 proceeding options:

1. Join Us: Takes the user to Sign Up Page
2. Login (on navigation bar): Takes user to Login Page
3. Other Links: Are hyperlinks to the same page, where further details of the site are shown. No functionality here.



Extended view of the landing page:

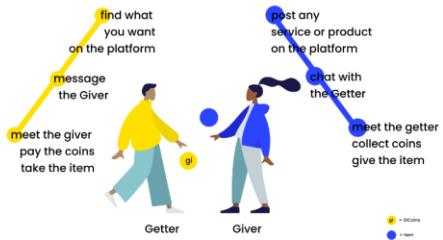


An ecosystem that thrives on
people helping people.

[Join us](#)



how it works?



team



aaditya



atul



tanmay

Company	Features	Resources	Legal
Team	Cool stuff	Resource	Privacy policy
History	Random feature	Resource name	Terms of use
Contact us	Team feature	Another resource	
Locations	Developer stuff	Find resource	
	Another one		



Login And Signup:

Signup

name

email

username

password

signup

Login

username

password

login

On successful Login/Sign Up, the user is taken to the GET Dashboard:

Here the user can use:

1. Search bar to look for a specific product
2. Other Navbar options whose actions are indicated in the GUI Sample.
3. Browse through categories already displayed, and click on see more to look specifically within that category.
4. Click on the product to see the detailed view of the product.

GET Dashboard:

The screenshot shows the GiGe (GET) Dashboard. At the top, there is a yellow header bar with the GiGe logo on the left, a "Categories" dropdown, a search bar containing "Find goods and services in your campus", a magnifying glass icon, a "Switch to Give" button, a "Wallet" button, a user profile icon, and a menu icon. Below the header is a large banner featuring a woman in a red coat and sunglasses holding shopping bags. Below the banner is a section titled "Electronics" with four items listed:

- A woman wearing headphones with the text: "I will give you my Boat headphones for 1 week" and a 5-star rating.
- A man on a bicycle with the text: "I will give you my Hero cycle for 3 days" and a 5-star rating.
- A woman wearing headphones with the text: "I will give you my Boat headphones for 1 week" and a 5-star rating.
- A man holding a Harry Potter book with the text: "I will give you Harry Potter Book for 1 month" and a 5-star rating.

At the bottom, there is a section titled "Books" with a "See more" button.

Extended View of the GET Dashboard:

GiGe Categories Find goods and services in your campus Switch to Give Wallet



Electronics See more



I will give you my Boat headphones for 1 week
★★★★★



I will give you my Hero cycle for 3 days
★★★★★



I will give you my Boat headphones for 1 week
★★★★★



I will give you Harry Potter Book for 1 month
★★★★★

Books See more



I will give you my Hero cycle for 3 days
★★★★★



I will give you Harry Potter Book for 1 month
★★★★★



I will give you my Boat headphones for 1 week
★★★★★



I will give you Harry Potter Book for 1 month
★★★★★

Cycles See more



I will give you Harry Potter Book for 1 month
★★★★★



I will give you my Boat headphones for 1 week
★★★★★



I will give you my Hero cycle for 3 days
★★★★★



I will give you Harry Potter Book for 1 month
★★★★★

Company Team History	Features Cool stuff Random feature	Resources Resource Resource name	Legal Privacy policy
----------------------------	--	--	-------------------------

[!\[\]\(228ca353545a983f50ab10404fba52ae_img.jpg\)](#) [!\[\]\(9fb78d1e0a589c6bfd96d0add51cdb2f_img.jpg\)](#) [!\[\]\(a9958f7e3f4cf2de44c334e7759631c9_img.jpg\)](#) [!\[\]\(ee0c861f494a1f202527f943d668e9c0_img.jpg\)](#)

Specific Category View:

When the user clicks on a specific category in the GET dashboard, the following page is displayed, and the user can look within this category.

The screenshot shows the GiGe app's interface for the 'Electronics' category. At the top, there is a yellow header bar with the GiGe logo, a 'Categories' dropdown, a search bar containing 'Find goods and services in your campus', a magnifying glass icon, a 'Switch to Give' button, a 'Wallet' icon, a user profile icon, and a menu icon. Below the header, the title 'Electronics' is centered above a grid of six items. Each item has a small profile picture of a user, a description, and a five-star rating. The items are:

- Boat headphones** (User 1): I will give you my Boat headphones for 1 week. Rating: ★★★★☆.
- Hero cycle** (User 2): I will give you my Hero cycle for 3 days. Rating: ★★★★☆.
- Boat headphones** (User 3): I will give you my Boat headphones for 1 week. Rating: ★★★★☆.
- Harry Potter Book** (User 4): I will give you Harry Potter Book for 1 month. Rating: ★★★★☆.
- Hero cycle** (User 5): I will give you my Hero cycle for 3 days. Rating: ★★★★☆.
- Boat headphones** (User 6): I will give you my Boat headphones for 1 week. Rating: ★★★★☆.

Product detailed view:

Here the user can view all details made available by the seller and choose to rent the product or go back.

GiGe Categories Find goods and services in your campus Switch to Give Wallet

Product



I will give my headphones

Simran Kapoor

Price	450
Days	3
Location	VIT

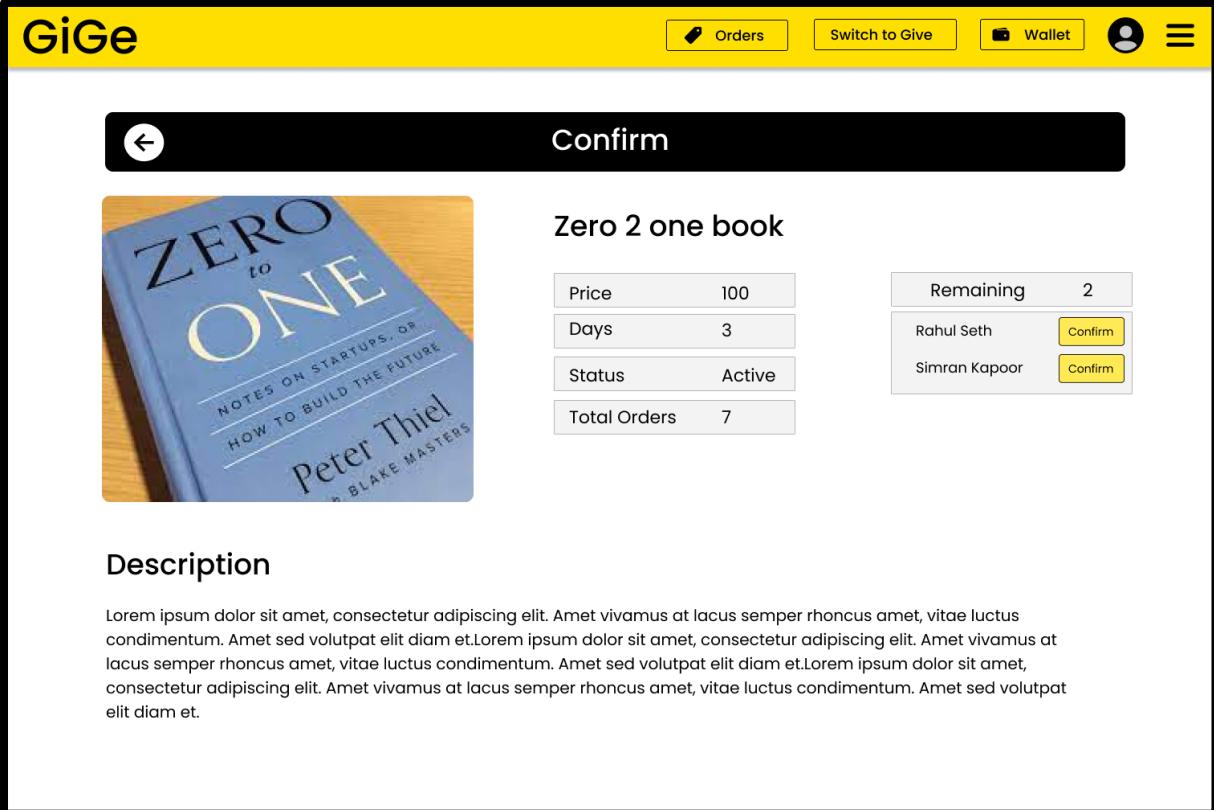
GET

Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum. Amet sed volutpat elit diam et. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum. Amet sed volutpat elit diam et. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum. Amet sed volutpat elit diam et.

And if they choose to rent the product then a final confirmation page is displayed:

Confirm Order:



The screenshot shows a mobile application interface for GiGe. At the top, there is a yellow header bar with the GiGe logo on the left and three navigation icons on the right: 'Orders', 'Switch to Give', 'Wallet', and a user profile icon.

The main content area has a dark background. On the left, there is a thumbnail image of the book 'Zero to ONE' by Peter Thiel. To the right of the image, the title 'Zero 2 one book' is displayed. Below the title, there are several data cards:

- Price: 100
- Days: 3
- Status: Active
- Total Orders: 7
- Remaining: 2
- Rahul Seth (with a 'Confirm' button)
- Simran Kapoor (with a 'Confirm' button)

At the bottom of the screen, there is a section titled 'Description' followed by a block of placeholder text.

Description

Placeholder text: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum. Amet sed volutpat elit diam et. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum. Amet sed volutpat elit diam et. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum. Amet sed volutpat elit diam et.

If the user clicks on the Switch to Give option in the navigation bar, then they are taken to the GIVE Dashboard: They must have had some activity in the GIVE mode for proper results, else it will be empty.

GIVE Dashboard:

The screenshot shows the GiGe GIVE Dashboard interface. At the top, there is a yellow header bar with the GiGe logo on the left and three buttons on the right: 'Orders' (with a briefcase icon), 'Switch to Give' (highlighted in blue), 'Wallet' (with a wallet icon), and a user profile icon with a three-line menu.

The main content area is divided into several sections:

- To Do List:** A list of tasks with checkboxes:
 - Give cycle to Rahul
 - Take Harry Potter book from Sandy
 - Pay Smriti
 - Add new taskA 'ADD TASK' button is located at the bottom right of this section.
- Add new Give:** A form with four input fields: 'Title', 'Price', 'Description', and 'Image'. An 'ADD' button is located at the bottom right.
- Active Gives:** A section showing three active give items with small profile pictures:
 - A man holding a Harry Potter book: "I will give you Harry Potter Book for 1 month" (5 stars)
 - A woman wearing headphones: "I will give you my Boat headphones for 1 week" (5 stars)
 - A person on a bicycle: "I will give you my Hero cycle for 3 days" (5 stars)A 'See more' button is located at the top right of this section.

They can view detailed results for their Active Gives in the next page:

Active GIVES:

GiGe

Orders Switch to Give Wallet User icon Menu icon

Active Gives

Title	Total Earnings	Active for	Action
Headphones	2000	30 days	Edit
Zero 2 one book	1500	79 days	Edit
Cycle	321	37 days	Edit

All pending orders can be accessed using the orders option in the navigation bar.

Pending Orders:

GiGe

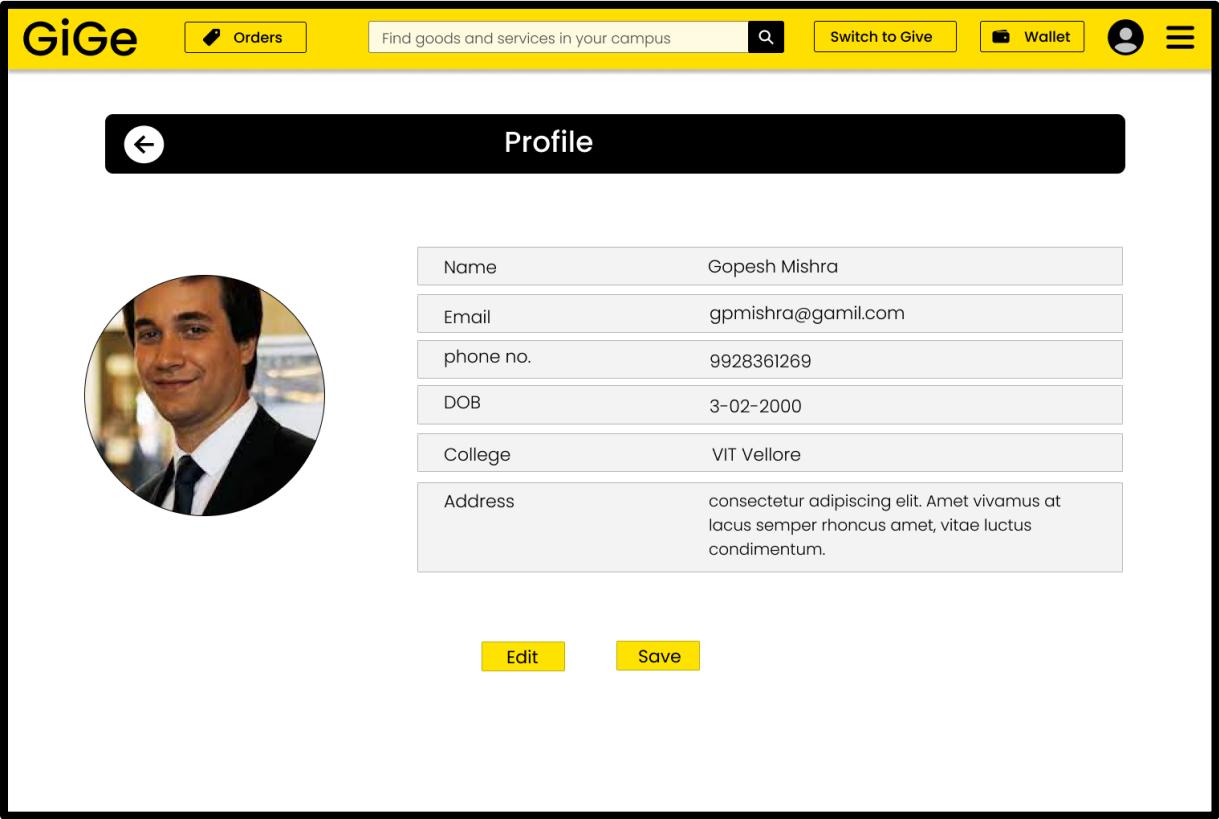
Orders Switch to Give Wallet

Orders

Title	Status	Remaining	Total		
 Headphones	Active	5	15	<button>Confirm</button>	<button>Edit</button>
 Harry Potter book	Inactive	2	21	<button>Confirm</button>	<button>Edit</button>
 Zero 2 one book	Active	2	7	<button>Confirm</button>	<button>Edit</button>
 Cycle	Active	1	10	<button>Confirm</button>	<button>Edit</button>

The user can also view their profile and edit it:

Profile View:



The screenshot shows the GiGe app's profile view screen. At the top, there is a yellow header bar with the GiGe logo on the left, followed by navigation icons for 'Orders' (with a checkmark icon), a search bar containing the placeholder 'Find goods and services in your campus', a magnifying glass icon, 'Switch to Give' (with a camera icon), 'Wallet' (with a credit card icon), a user profile icon, and a three-line menu icon.

The main content area has a black header bar with a back arrow icon on the left and the word 'Profile' in white text on the right. Below this, on the left, is a circular profile picture of a man in a suit. To the right of the picture is a table with the following data:

Name	Gopesh Mishra
Email	gpmishra@gamil.com
phone no.	9928361269
DOB	3-02-2000
College	VIT Vellore
Address	consectetur adipiscing elit. Amet vivamus at lacus semper rhoncus amet, vitae luctus condimentum.

At the bottom of the profile view, there are two buttons: a yellow 'Edit' button on the left and a yellow 'Save' button on the right.

full

The GiGe website features a prominent yellow header bar with the brand name. Below it, a main banner highlights the platform's mission: "An ecosystem that thrives on people helping people." A large yellow section titled "give and get anything anytime anywhere" includes a cartoon illustration of two people interacting. To the right, a yellow "Join us" button leads to a "login/signup" page where users can "Join the GiGe ecosystem" via "sign in" or "sign up".

team

The "team" page displays three team members with their names: Aaditya, Atul, and Tamay, each accompanied by a small profile picture.

how it works?

A diagram titled "how it works?" shows the exchange process: a "giver" finds what they want on the platform, messages the "getter", opens the gifter, pays the coins, and takes the item. The "getter" finds any service or product on the platform, works with the giver, gets the gifter, collects coins, and gives the item.

links

- Company
- Features
- Partners
- Legal
- Contact Us
- Privacy Policy
- Industry Report
- Team
- Another one

social media icons

signup

The "signup" form requires users to enter their name, email, user name, and password, followed by a "register" button.

login

The "login" form requires users to enter their name and password, followed by a "log in" button.

product view

The "product view" page shows a woman giving headphones to another person, with a caption: "I will give my headphones".

profile

The "profile" page displays a user's profile picture and details, including name, address, phone number, and college, along with a list of items available for exchange.

get dash

The "get dash" page features a grid of items available for exchange, with a central image of a woman giving headphones.

wallet

The "wallet" page shows a balance of 30.000 tokens and a list of recent transactions.

category

The "category" page shows a grid of items categorized under "Electronics".

The image displays six wireframe prototypes for a mobile application, likely a donation or crowdfunding platform. The prototypes are arranged in a grid:

- active gives**: Shows a list of active giving projects with columns for Title, Total Amount, and Status.
- give dash**: Shows a dashboard with a "Give" button, a "Fundraising Goal" section, and a "Recent Activity" feed.
- wallet**: Shows a wallet screen with a balance of 30,000 GiGe and a transaction history table.
- orders**: Shows a list of orders with columns for Title, Pledge, Percentage, and Info.
- profile**: Shows a user profile screen with a photo, name (John Doe), email (john.doe@example.com), phone (9876543210), and a bio.
- confirm**: Shows a confirmation screen for a pledge of \$100 for the "Zero to One" book.

CODE

<https://github.com/tanmayb104/GiGe>

RESULTS

The screenshot displays the GiGe application interface across four main sections:

- Landing Page:** Features the tagline "An ecosystem that thrives on people helping people". A yellow "Join Us" button is located below the text.
- User Flow Diagram:** Titled "how it works?", this section illustrates the interaction between a Getter and a Giver. It shows the Getter finding what they want, messaging the Giver, meeting the Giver, paying coins, and taking the item. Conversely, the Giver posts items, chats with the Getter, meets the Getter, collects coins, and gives the item. A legend indicates that yellow dots represent "coins" and blue dots represent "item".
- Team Section:** Displays three team members: Aaditya, Atul, and Tanmay, each with a profile picture.
- Footer:** Includes links for Company, Features, Privacy Policy, Team, GitHub, History, Terms Of Use, Contact us, and Locations. It also features a map of the VIT campus area.

GiGe

About Sign Up

Login

Good to see you again

We just need a few details

User Name

Password

Submit

GiGe

About Login

Join Us

Share and Earn
On your Campus

First Name

Last Name

User Name

Phone Number

Password

Confirm Password

Email address

Address

Add Image

Submit

GiGe

Categories Find Goods and Services in your Campus

Switch To Give Orders

Electronics Books General



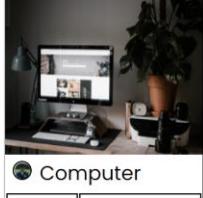
General See More





Cricket Gear
250 | 2 Days
GET

Electronic See More



Computer
200 | 5 Days
GET

Books See More

Company
Team
History
Contact us
Locations

Features
Cool Stuff
GitHub

Privacy Policy
Terms Of Use

[!\[\]\(ec787902bd0c7482901b62444eec7616_img.jpg\)](#) [!\[\]\(957f95a53974843fae3b37c55f6262a0_img.jpg\)](#) [!\[\]\(b4021053f065a62c7d0d61dcc1fb2184_img.jpg\)](#) [!\[\]\(080e667862f05802713b41d4e944e3de_img.jpg\)](#)

 HOME Search in Category... Switch To Give

Search Results



Computer
200 | 5 Days
GET



View Product

[Go Back](#)[Orders](#)

Product



Computer



rohit123

Price Days Location [Rent It!](#)

Orders

[Go Back](#)[HOME](#)

Orders

	Title	Price	Days	Owner Name	Owner Number	Delete
	Computer	200	5	Rohit Gupta	8879728596	

[Buy with Pay](#)

Your Products

[Switch to GET](#)[Orders](#)

To Do List

 Add New Task[Add](#)

Add New Give



Active GIVES



Add New Task

Add

Active GIVES

Laptop

Gaming Mouse

Mouse

See More

See More

See More

GiGe

Add New Product

Go Back

What's The Product?

It's Simple. Complete the form below click submit and Voila, your product is good to go!

Name:

Description:

Cost: Days:

Category:

Digital: Yes No

GiGe

Your Profile

HOME

Profile

Username	atul
Email	atulagarwal0721@gmail.com
Phone Number	1234567890
Address	Mumbai

Submit



Edit Product

[Go Back](#) [HOME](#) [Orders](#) [Logout](#)

Edit



Name

Days

Price

CONCLUSION

Through this project we have successfully implemented the main objectives listed out earlier. The skills involved in the development of the project required complete and sincere dedication to the concepts involved in software development. We have followed principles that we learned from Software Engineering to make this project a success. We have properly provided a complete cycle for the listing and renting of products. The interface is smooth and easy to use. The functionalities provided by the application satisfy all the demands posed by a user of the site.

FUTURE ENHANCEMENTS

For the future enhancements to GiGe we plan to extend the services from just renting goods and services to buying and selling products also. So Add in website payment facilities so that the user can pay on the GiGe website itself. We also plan to create a GiGe wallet where users can store their money to save some transaction cost for each transaction. Also using this wallet feature we can take security deposits from people renting expensive products so that if the rented product is damaged or the person does not return the article we can insure that the Giver gets what money he deserves.