Navigo

# CS 692 - COMPUTER SCIENCE PROJECT-||
# SPRINT / DELIVERABLE : 4

**GROUP 1:**

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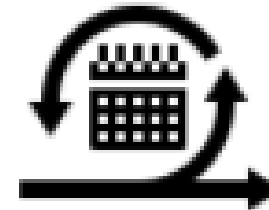
# AGENDA

1. Project Overview

2. Project Schedule

3. Design Architecture

4. Sprint Recap
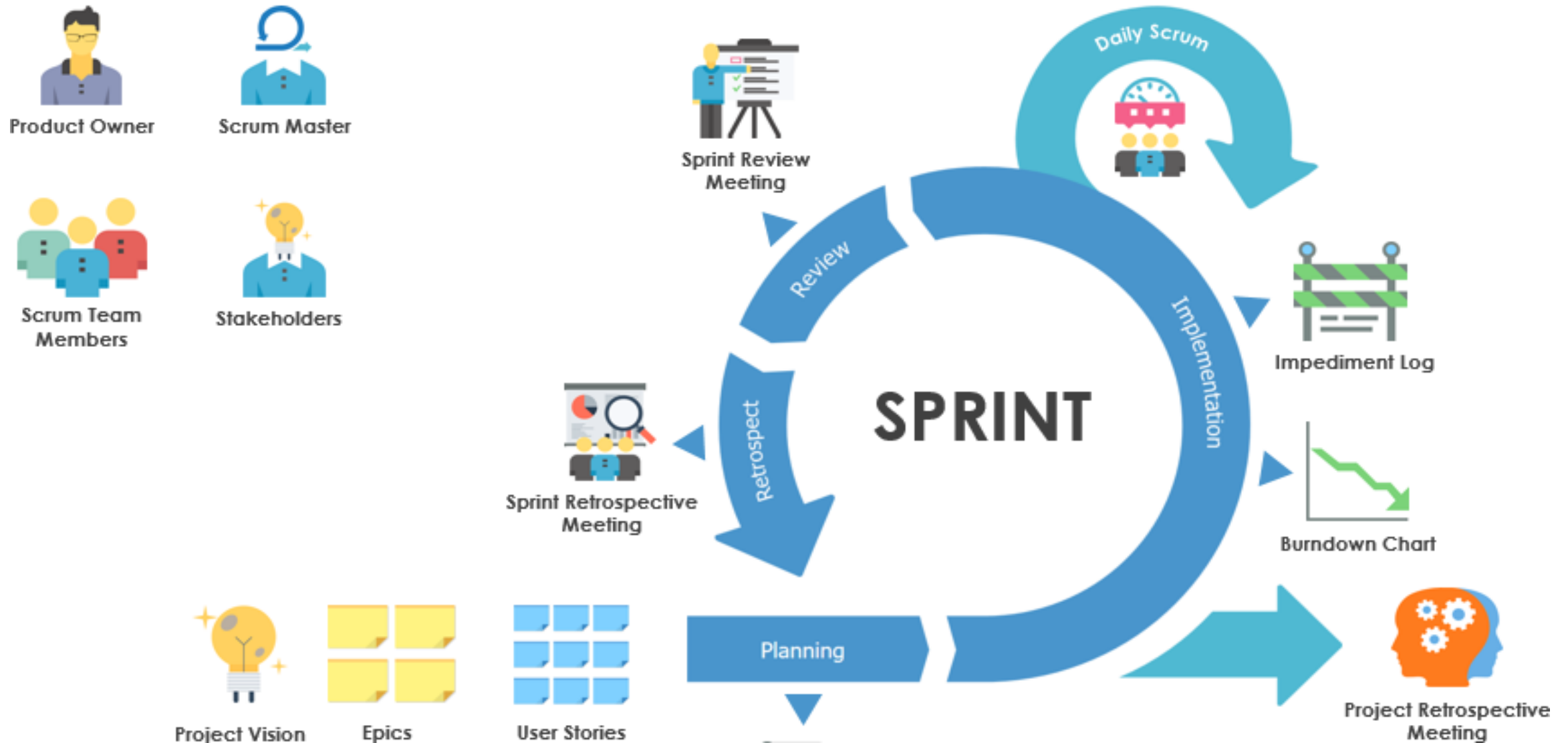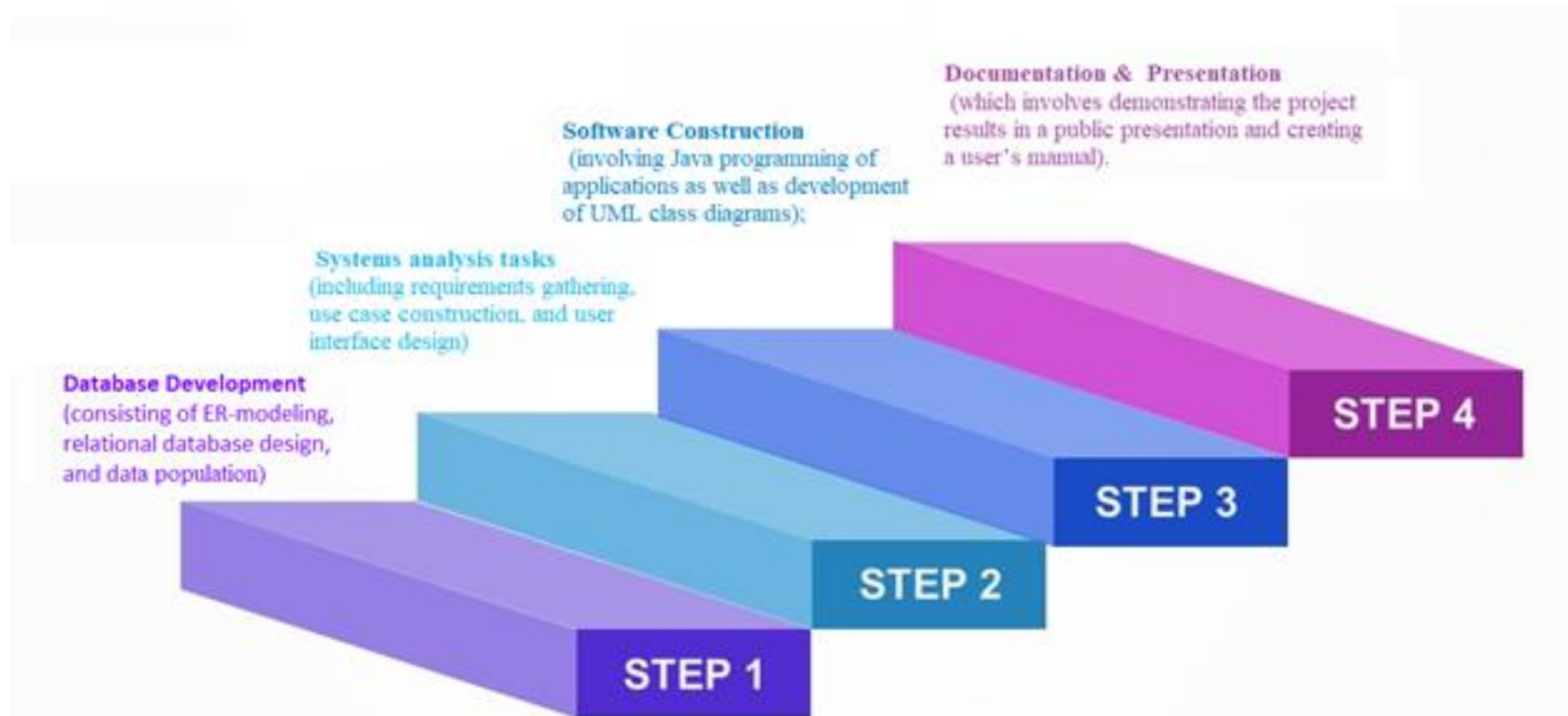
5. Test Case

6. Retrospective

7. Conclusions

8. Project Demo

# The Agile – Scrum Framework

# PROJECT SCHEDULE

**Database Development**
(consisting of ER-modeling, relational database design, and data population)

**Systems analysis tasks**
(including requirements gathering, use case construction, and user interface design)

**Software Construction**
(involving Java programming of applications as well as development of UML class diagrams);

**Documentation & Presentation**
(which involves demonstrating the project results in a public presentation and creating a user's manual).

STEP 1

STEP 2

STEP 3

STEP 4

# Overview of CS 691(Project1):

For CS691, We started off by brainstorming ideas with different project ideas and plans. Our team decided on the project during Sprint 1 of CS 691. We then began the Project Development by designing and implementing the plan. By Sprint 3, we designed a prototype web application. Our MVP for Sprint 4 consisted of a functional web application which allows users to sign up with their unique login/password credentials, login, and contacting Navigo Team.

•Brainstorming project ideas
•Project Planning
•Designing & Implement the plan
•Designing a prototype
•Programming (front end coding, core functionality implementation, etc)
•Testing
•Delivering the MVP
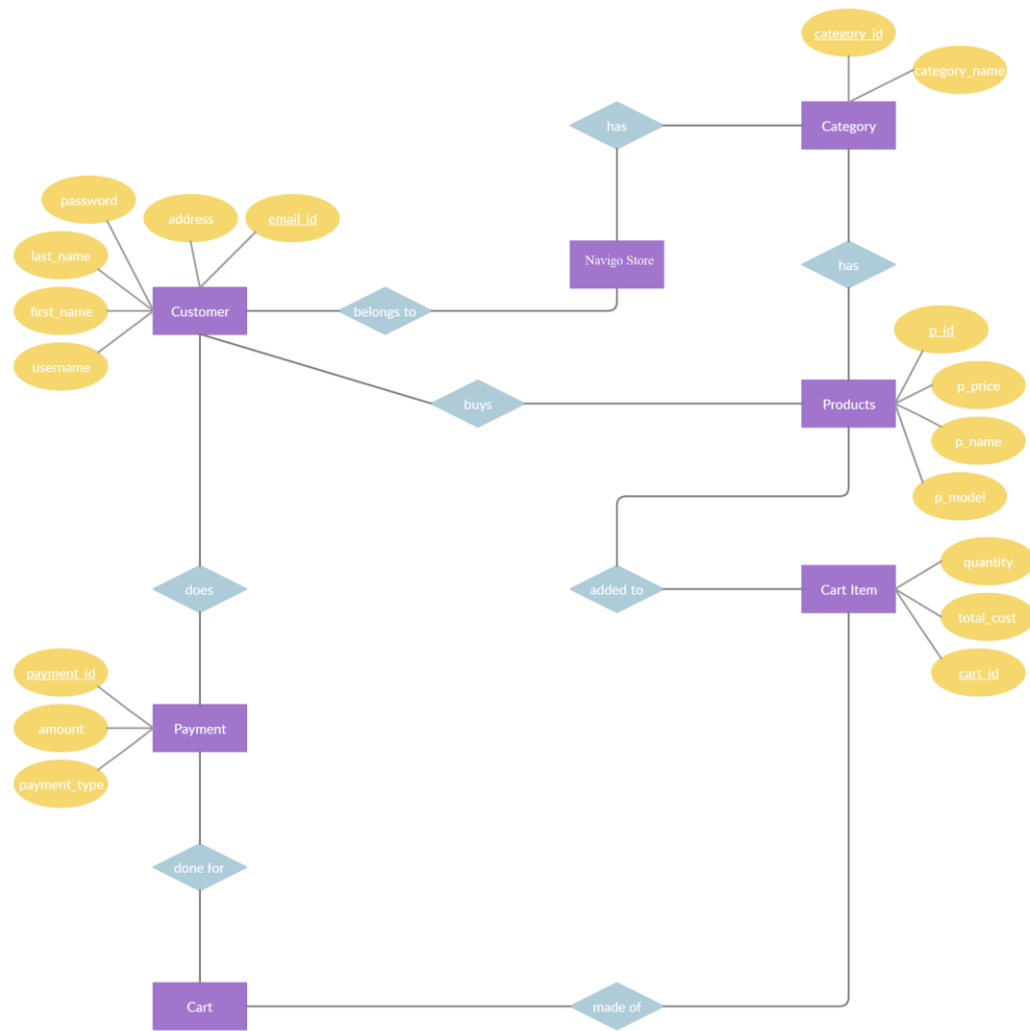
# Overview of CS 692(Project2):

For CS 692, We  designed and implemented the chatbot functionality to our application which improves user engagement and assists users. A search bar was also implemented along with another round of complete testing of our application. We then decided to launch a Navigo Merch Store which is created for the purpose of raising money for the further development of our application.

•Designing and implementing the Chatbot to our application.
•Testing our application
•New features/updates to our application. (Search bar, Store)
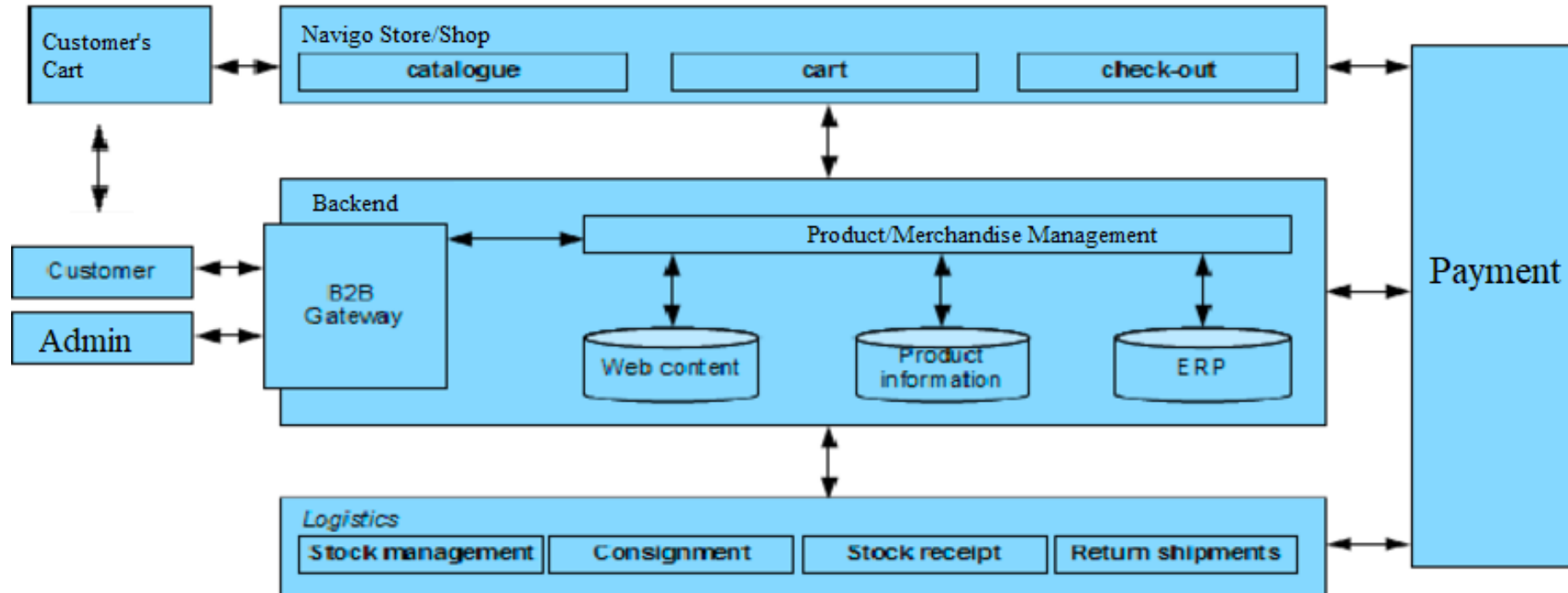•Finishing our MVP.
•Deliver the final draft.

## Sprint 4 Updates/Overview

We created an official merchandise store which has a wide variety of official Navigo merchandise products. Through this store, the end user can shop and  order physical or digital products. A brief list of features we have implemented for our Navigo merch store are given below.

- Sign up/Login using Gmail/email
- Add/Remove items from Cart
- Order products (Physical products, Digital Products)
- Subscription to the newsletter form
- Designing & Implement the merch store
- User/Admin Account Management (Payment, Addresses, Orders, etc)
- FAQ Page (Shipping and returns policy, Payment)
- Connecting official Instagram page of Navigo Merch
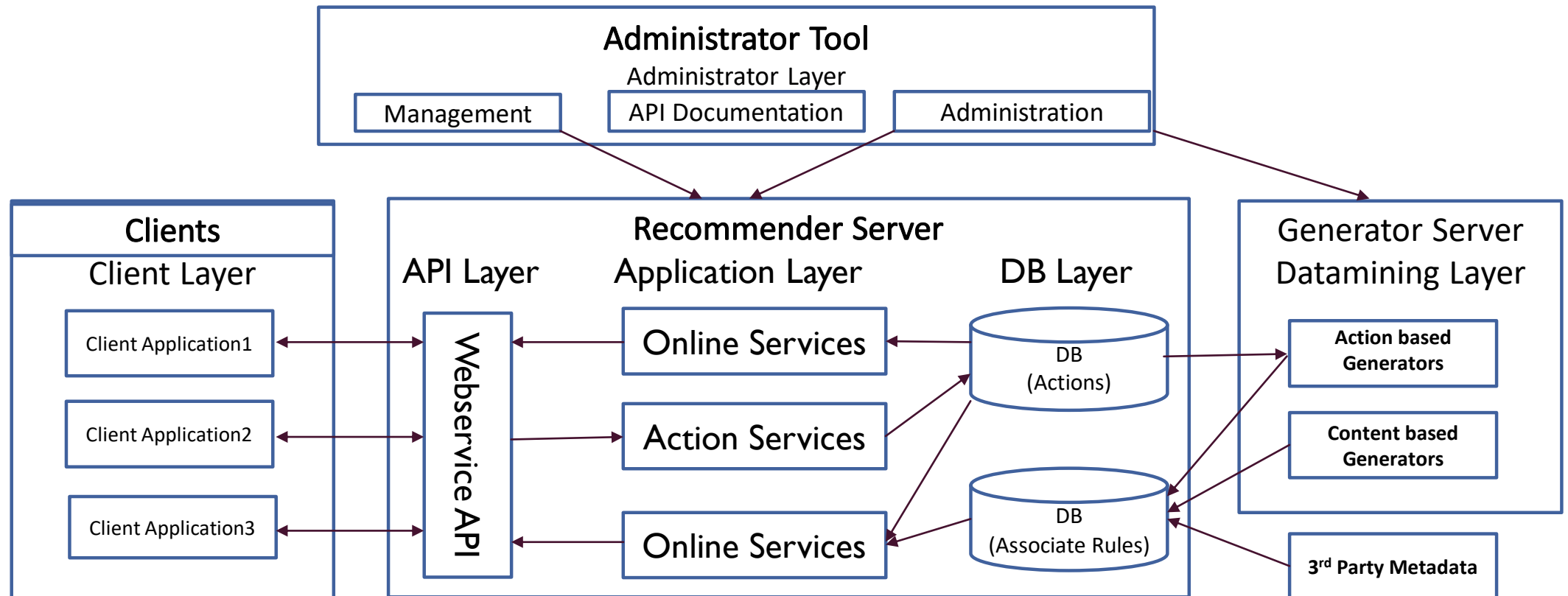- Other updates to Navigo

ER-DIAGRAM: NAVIGO STORE

# ARCHITECTURE: NAVIGO STORE

# Navigo Web application Architecture



**Administrator Tool**

Administrator Layer

| Management | API Documentation | Administration |

**Clients**

Client Layer

- Client Application1
- Client Application2
- Client Application3

**Recommender Server**

API Layer | Application Layer | DB Layer

Webservice API

- Online Services
- Action Services
- Online Services

- DB (Actions)
- DB (Associate Rules)

**Generator Server**

Datamining Layer

- **Action based Generators**
- **Content based Generators**
- **3rd Party Metadata**

# PRODUCT BACKLOG

| Product Backlog | Features | As a.. | I want to able to.. | So that.. | Priority | Sprint | Status |
|---|---|---|---|---|---|---|---|
| 1 | Search bar Listings | Admin | Create New York listing of Pace university and one trade center | User can access the information and directions and search for location. | High | 4 | Done |
| 2 | Navigo Merch web Application | Admin | Create Navigo Merch Website application to clone with Navigo Web application | I can add the Navigo Merch website to "Support us" page in Navigo4u.com | High | 4 | Done |
| 3 | Add features to Navigo Merch | Admin | Add new features to the product catalog | User can add it to cart | High | 4 | Done |
| 4 | Navigo Web-UI Interface | Admin | Complete UI Interface of Navigo Web registration, login with Captcha to robot or human | User can verify that I am not a robot | Medium | 4 | Done |
| 5 | Navigo Web-Feedback to listing pages | Admin | Add feedback to the listing in Navigo4u.com | User can provide feedback of the location. | Medium | 4 | Done |
| 6 | Navigo Web- Search bar | Member | I want to search the location with the location | I can navigate to location, add feedback, use chatbot services | Medium | 4 | Done |

# PRODUCT BACKLOG

| Product Backlog | Feature | As a.. | I want to able to.. | So that.. | Priority | Sprint | Status |
|---|---|---|---|---|---|---|---|
| 7 | Navigo - Web Search Bar | Member | Search for Pace University or One World Center | I can search for directions and see information. | High | 4 | Done |
| 8 | Navigo Web- Chatbot | Member | Chat with the navigo team. | I can submit my queries. | High | 4 | Done |
| 9 | Navigo Merch- Cart | Member | Access/change items in the cart | I can add/remove items or change quantity. | High | 4 | Done |
| 10 | Navigo web- Subscription Form | Visitor | I want to submit my email in the subscription form. | I could get all the updates regarding the store from the Navigostore | Medium | 4 | Done |
| 11 | Navigo Web- Contact Us | Visitor | Add feedback to Navigo, through the contact us page | I can add to the improvement of the Navigo web application. | Medium | 4 | Done |
| 12 | Navigo Merch- Contact US | Visitor | Add feedback to Navigo, through the contact us page | I can add to the improvement of the Navigo Merch Application | Medium | 4 | Done |

| User Story Id | As a | I want to | So that | Acceptance Criteria |
|---|---|---|---|---|
| N001 | Admin | Check the product Search bar listing posted by me | I can manage the listings | Given that I have added the location listings when I click on search bar my listed items should show up with name and information |
| N002 | Admin | Add Navigo Merch application through Navigo Web Application | I can add Navigo Merch to "Support Us" Tab in Navigo Web | Given that I have provided advertisement option to various web application like Navigo merch Web application |
| N003 | User | Add products to my cart | I can view the added products later | Given that I have browsed my products, I would want to review my orders in the cart. |
| N003 | User | Delete Products in my cart | I can empty my cart | Given that I have browsed my products, I would want to review my orders in the cart. |
| N005 | User | Add feedback to Navigo | I can visit the locations as per the feedback provided or add the feedback | Given a platform, I would want to add feedback for the locations. |

# USER STORY AND ACCEPTANCE CRITERIA

# SPRINT BACKLOG

| User Story | Feature | Task | Issues | Start Date | End Date | Status |
|---|---|---|---|---|---|---|
| N001 | Navigo - Web Search Bar | Add pace university and one trade center as a listings | None | 05/11/2020 | 03/12/2020 | Done |
| N002 | Navigo Merch web Application | Create Navigo Merch web Application | None | 17/11/2020 | 03/12/2020 | Done |
| N003 | Add features to Navigo Merch | Add the feature/removing or modifying items in cart. | None | 20/11/2020 | 25/11/2020 | Done |
| N010 | Navigo web- Subscription Form | Add the feature of a subscription form. | None | 22/11/2020 | 25/11/2020 | Done |
| N011 | Navigo Web- Contact Us | Add the contact us page (email, message) | None | 27/11/2020 | 28/11/2020 | Done |
| N012 | Navigo Merch- Contact Us | Add the contact us page (email, message,) | None | 26/11/2020 | 27/11/2020 | Done |

# TEST CASES

| User Story ID | Test Case ID | Test Scenario | Test Data | Expected Results | Actual Results | Testing Result |
|---|---|---|---|---|---|---|
| | N002/1 | Home Page | On-Click | No Validation Errors | No Validation Errors | PASS |
| | N002/2 | homepage - Logo | On-Click | Redirect to "home" page | Redirected to "home" page | PASS |
| Home Page--N002 | N002/3 | Home Page - Button - Start Here | On-Click | Redirect to "Login/Signup" Page | Redirected to "Login/Signup" Page | PASS |
| | N002/4 | Home | On-Click | Redirect to "home" page | Redirected to "home" page | PASS |
| | N002/5 | About us | On-Click | Redirect to "About us" page | Redirected to "About us" page | PASS |
| | N002/6 | About us - Drop Down - Our Services | On-Click | Redirect to "Our Services" page | Redirected to "Our Services" page | PASS |
| | N002/7 | About us - Drop Down - Our Team | On-Click | Redirect to "Our Team" page | Redirected to "Our Team" page | PASS |
| | N002/8 | Contact | On-Click | Redirect to "Contact" page | Redirected to "Contact" page | PASS |
| | N002/9 | Login/Signup | On-Click | Redirect to "Login/Signup" Page | Redirected to "Login/Signup" Page | PASS |
| | N002/10 | Login/Signup - Drop Down - Register | On-Click | Redirect to "Registration" Page | Redirected to "Registration" Page | PASS |
| | N002/11 | Login/Signup - Drop Down- Login | On-Click | Redirect to "Login" Page | Redirected to "Login" Page | PASS |
| Navigo Web- Menu-N002 | N002/12 | Search | On-Click | Provides articles related to website | Provided articles related to website | PASS |

# TEST CASES

| User Story ID | Test Case ID | Test Scenario | Test Data | Expected Results | Actual Results | Testing Result |
|---|---|---|---|---|---|---|
| | N0012/1 | Location Map | On-Click,Scroll, On-Click+Drag | Navigate through the map | Navigated through the map | PASS |
| | N0012/2 | Contact form - Name | Pranav | NO Validation Errors | NO Validation Errors | PASS |
| | N0012/3 | Contact form - Name | *Blank* | Validation Errors - "The field is required" | Validation Errors - "The field is required" | PASS |
| | N0012/4 | Contact form - Email | Pranav@gmail.com | NO Validation Errors | NO Validation Errors | PASS |
| | N0012/5 | Contact form - Email | *Blank* | Validation Errors - "The field is required" | Validation Errors - "The field is required" | PASS |
| | N0012/6 | Contact form - Subject | Registration | Accept the data from user | Accepts the data from user | PASS |
| | N0012/7 | Contact form - Your message | Hello, Call me back | Accept the data from user | Accepts the data from user | PASS |
| Navigo Merch Contact US-Noo12 | N0012/8 | Contact form - Button - Send | On-Click | forward the contact form to the mail Specified by admin | forwards the contact form to the mail Specified by admin | PASS |

# TEST CASES

| User Story ID | Test Case ID | Test Scenario | Test Data | Expected Results | Actual Results | Testing Result |
|---|---|---|---|---|---|---|
| Navigo Merch-Login/Signup (N002) | N002/13 | Login/Signup | On-Click | Redirect to "Login/Signup" Page | Redirected to "Login/Signup" Page | PASS |
| | N002/14 | Login/Signup - Button - Register | On-Click | Redirect to "Registration" Page | Redirected to "Registration" Page | PASS |
| | N002/15 | Login/Signup - Button - Login | On-Click | Redirect to "Login" Page | Redirected to "Login" Page | PASS |
| Navigo Merch Email Verification- (N002) | N002/16 | Check with Email | rahul110897@gmail.com | No Validation Errors | No Validation Errors | PASS |
| | N002/17 | Check without Username | *Blank* | Validation Errors - "The username field is empty". | Validation Errors - "The username field is empty". | PASS |
| | N002/18 | Check without Email | *Blank* | Validation Errors - "The username field is empty". | Validation Errors - "The username field is empty". | PASS |
| | N002/19 | Check with password | test1234*ab$$143 | No Validation Errors | NO Validation Errors | PASS |
| | N002/20 | Check without password | *Blank* | Validation Errors- "The password field is empty". | Validation Errors- "The password field is empty". | PASS |
| | N002/21 | Check with invalid Username | Rahul | Validation Errors- "Invalid username or email". | Validation Errors- "Invalid username or email". | PASS |
| | N002/22 | Check with invalid Email | Rahul@gmail.com | Validation Errors- "Invalid username or email". | Validation Errors- "Invalid username or email". | PASS |
| | N002/23 | Check with incorrect password | test | Validation Errors- "The password you entered is incorrect. Lost your password ?." | Validation Errors- "The password you entered is incorrect. Lost your password ?." | PASS |

# TEST CASES

| User Story ID | Test Case ID | Test Scenario | Test Data | Expected Results | Actual Results | Testing Result |
|---|---|---|---|---|---|---|
| Button Verification- (N002) | N002/24 | Button - Login | On-Click. If all constraints Satisfied. | Redirect to success page. | Redirects to success page. | PASS |
| | N002/25 | Button - Login | On-Click. If all constraints not Satisfied. | Validation Errors | Validation Errors | PASS |
| | N002/26 | Button - Register | On-Click | Redirect to "Registration" Page | Redirected to "Registration" Page | PASS |
| | N002/27 | Button - Navigo4u.com | On-Click | Redirect to Home page. | Redirects to Home page. | PASS |
| Navigo Merch Store page(N002) | N002/28 | Button - Store | On-Click | Redirect to "Store" Page | Redirected to "Store" Page | PASS |
| | N002/29 | Button - New Collection | On-Click | Redirect to "New Collection" page. | Redirects to "New Collection" page. | PASS |
| Navigo Merch Cart- | N002/30 | Button - Cart | On-Click | Add/Remove Items from Cart | With cart, the User add and remove items from cart. | PASS |

# TEST CASES

| User Story ID | Test Case ID | Test Scenario | Test Data | Expected Results | Actual Results | Testing Result |
|---|---|---|---|---|---|---|
| Button Verification | N002/31 | Button - Login | On-Click. If all constraints Satisfied. | Redirect to success page. | Redirects to success page. | PASS |
| | N002/32 | Button - Login | On-Click. If all constraints not Satisfied. | Validation Errors | Validation Errors | PASS |
| | N002/33 | Button - Register | On-Click | Redirect to "Registration" Page | Redirected to "Registration" Page | PASS |
| | N002/34 | Button - Navigo4u.com | On-Click | Redirect to Home page. | Redirects to Home page. | PASS |
| Home - Menu | N002/35 | Button-Support us | On-Click | Redirect to "Our Services" page | Redirected to "Our Services" page | PASS |
| Navigo Web-Search | N001/1 | Top right of the home page | Type-listing name | Search listings | Provides articles related to website | PASS |
| Navigo Web-Search Bar - Button | N001/2 | Top right of the home page | Type-listing name | Search Bar gives an option to type in the desired search item. | Search bar gives the user an option to search for listings | PASS |
| Navigo Web-Re captcha | N002/3 | Under registration/login page | Check button | I am not a robot check botton | I am not a robot check button | PASS |
| Navigo Web-Remember me | N002/4 | Under registration/login page | Check button | Remember the password | Remember the password | PASS |

# RETROSPECTIVE

## What went well ➕

| | |
|---|---|
| Change management of Navigo Merch was quick and changes are done as per request<br><br>+ 6 | Team communication and collaboration<br><br>+ 6 |
| Updating with JIRA with regular updates<br><br>+ 6 | Better planning for team meetings<br><br>+ 5 |
| • We were able to complete individual tasks on time.<br><br>+ 5 | Followed up with each team member on their given tasks.<br><br>+ 4 |
| Team work went very well<br><br>+ 6 | Assigning tasks through jira<br><br>+ 4 |
| Helping teammates<br><br>+ 5 | |

## What can be improved ➕

| | |
|---|---|
| Time Limitation due to different remote locations.<br><br>+ 6 | Better communication needed due to different timezone<br><br>+ 5 |

## Action Items ➕

| |
|---|
| Everything Done well.<br><br>+ 6 |

# PERSONA

# PERSONA

# PERSONA

**SCARLETT**

## Demographics

Age: 23
Genger: Female
Martial Status: Single
Location: New York

## Qualities

*Self Motivated
*Innovative
*Energetic

## Professional Background

### Education

Master's in Computer Science

### Job Title

Software Developer

### Work Experience

Worked as a Junior analyst at a gaming comany to give a detailed analytical report on profits and loss generated by the business for a year taking the responsibility of increase in sales for business by 5%

## Preferences

### Interests

Volunteering in organizing boot camps, Participating in techncal fests, Running, Watching Movies, Reading Books, Playing cricket.

## Favourite brands and Products

Desli Paris, Vera Bradley, Hitachi, Prada, Hermes, Gucci, Rolex

## Psychographics

### Values

Responsiveness, Efficiency, Work-life Balance, clear-communication, Honesty

### Goals

Pursue Master's in the same field from a reputed university in USA.

## Challenges & Frustrations

*Difficulty finding new locations.
*Hard to find campus.
*Unable to search affordable hotels.

## Communication Style

Casual ————— Professional

General ————— Technical

# FUTURE SCOPE

- Implementing AI Driven Chabot

- Search bar with Voice recognition feature

- Availability of more New York location in Search bar

- Make the Web application responsive

- Deploy Mobile applications for Android and IOS

- Introducing Data Mining techniques with Data visualization, and Image recognition

- Add multi factor Authentication

# PREVIEW: NAVIGO HOME PAGE
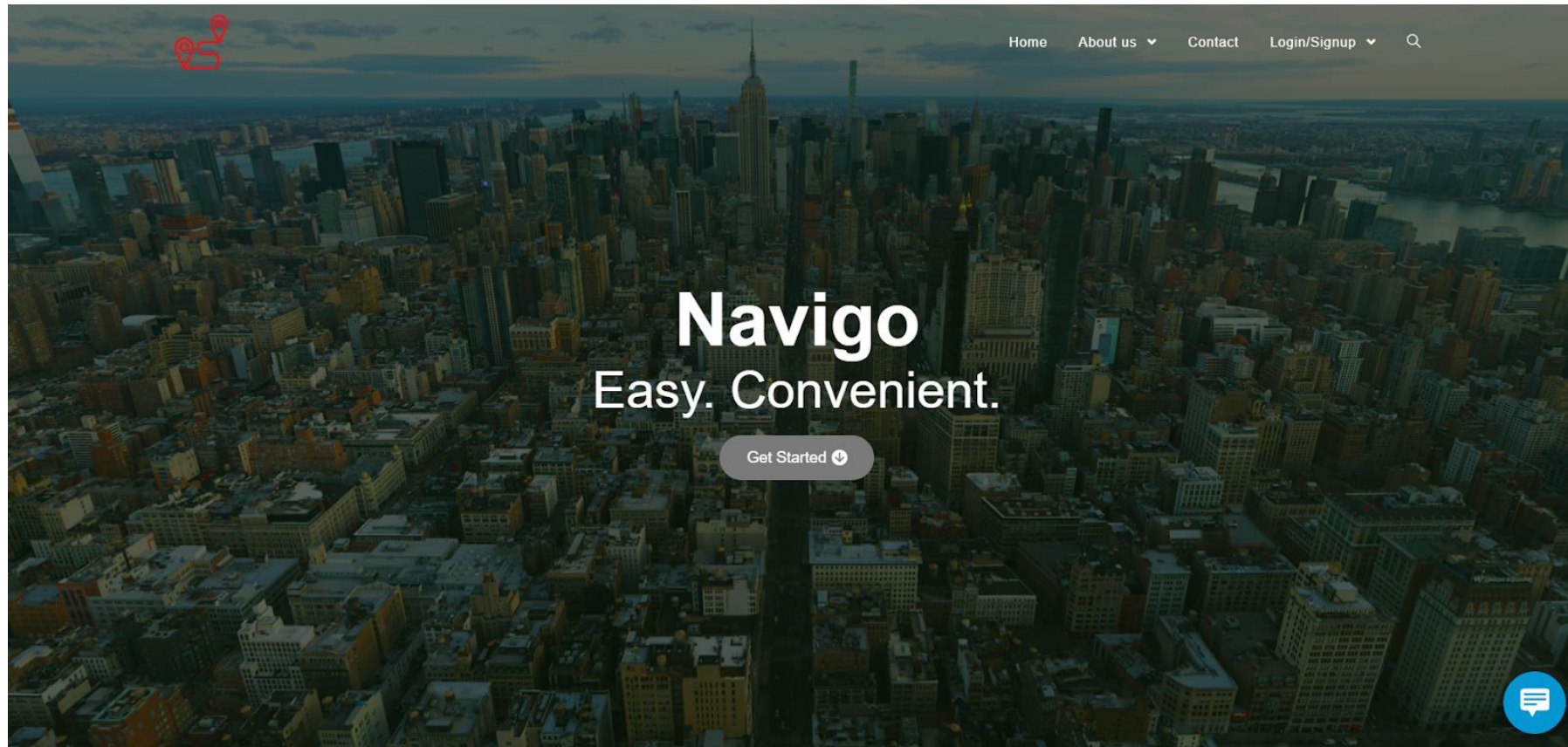
# PREVIEW: CONTACT FORM
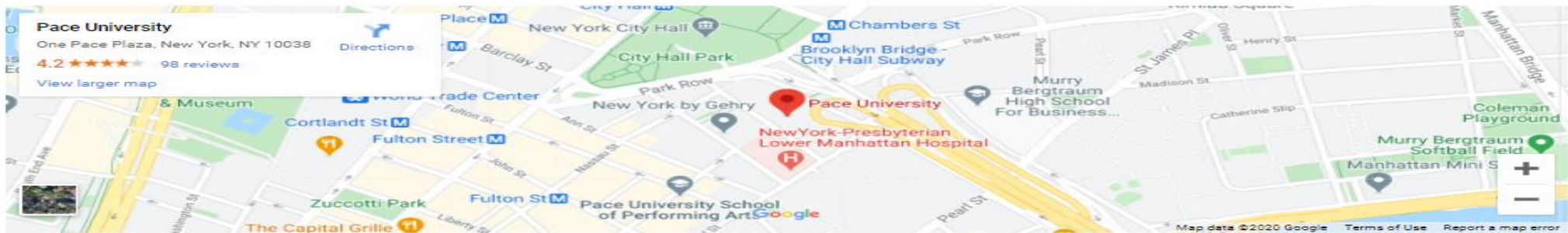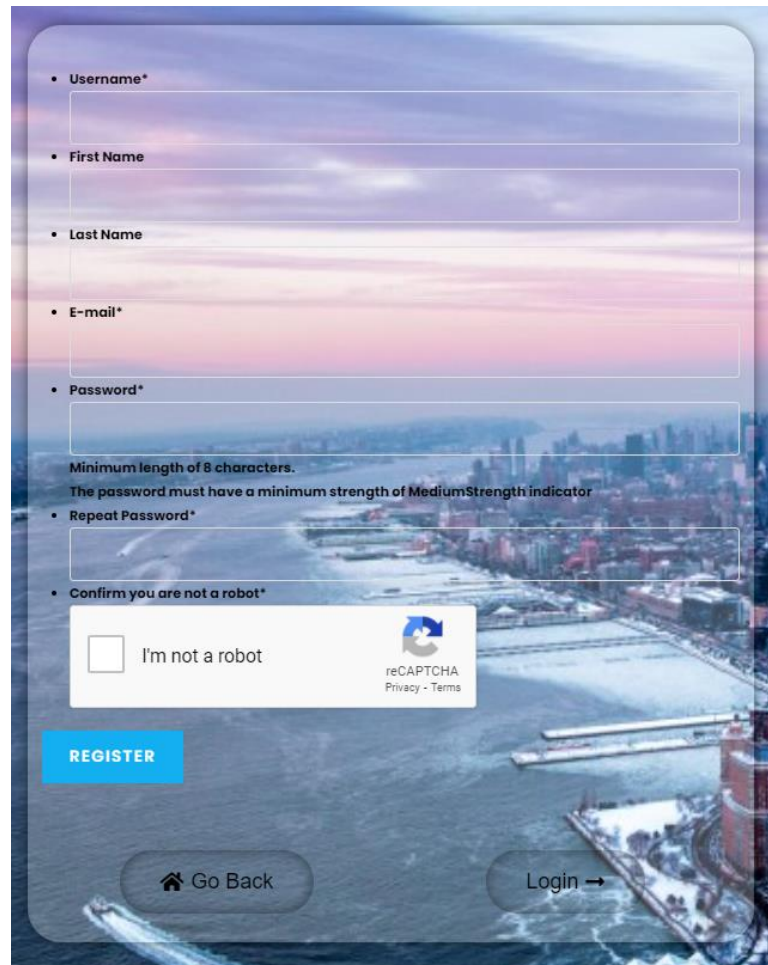
# PREVIEW: REGISTRATION AND LOGIN PAGE

# PREVIEW: USER DASHBOARD

# PREVIEW: USER EDIT PROFILE AND LOGOUT

# PREVIEW: NAVIGOMERCH

Store Main Menu
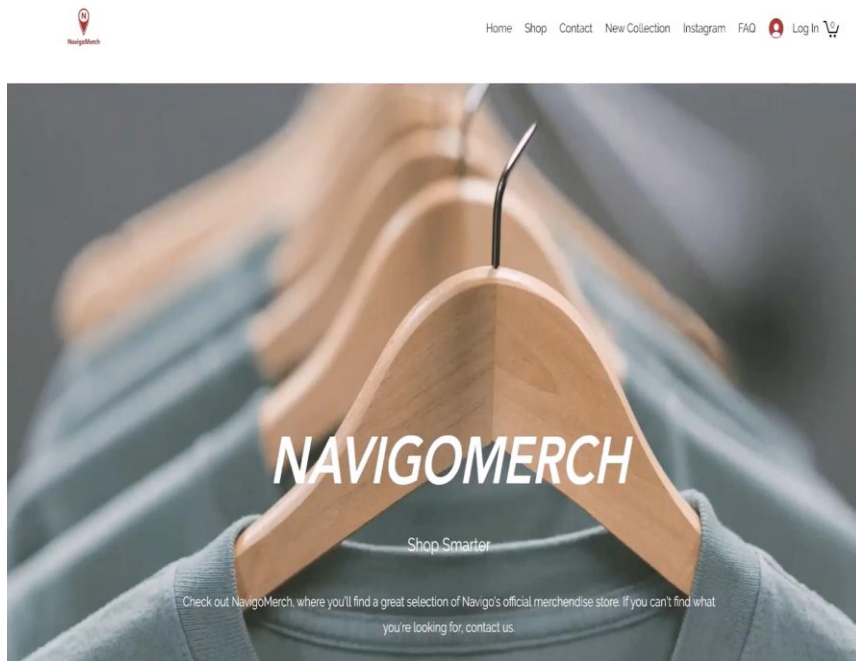


Shop
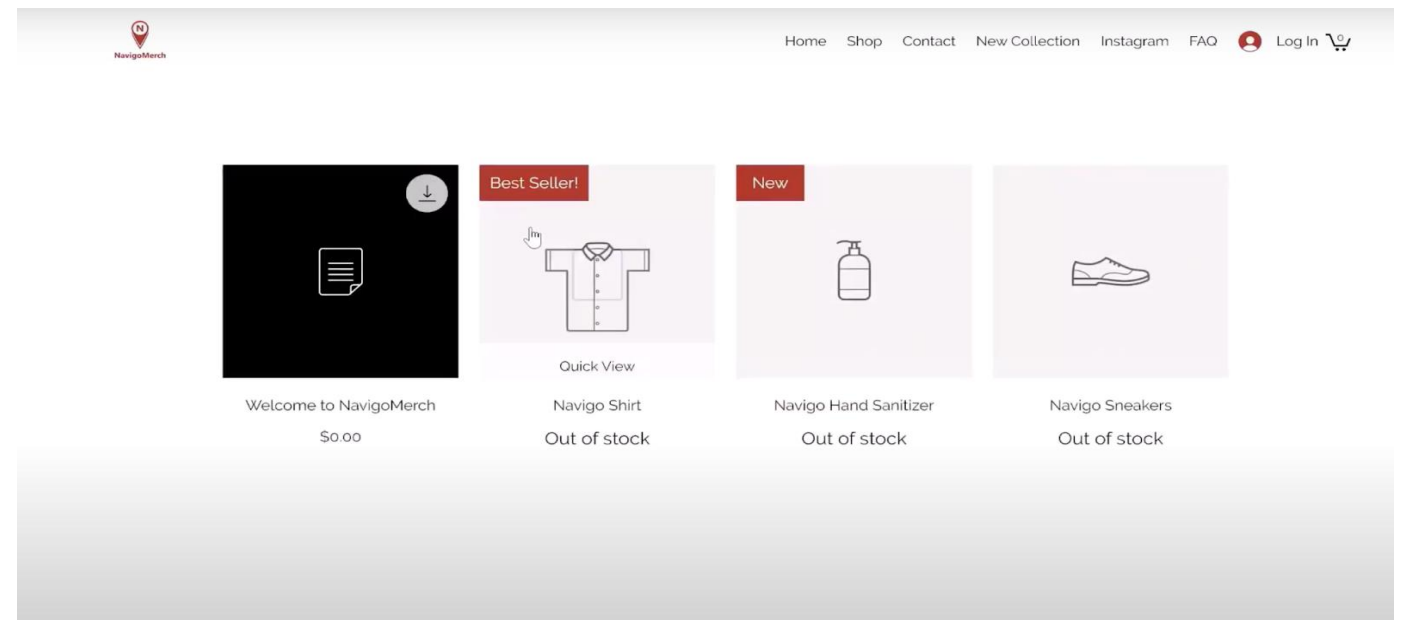
# PREVIEW: NAVIGOMERCH
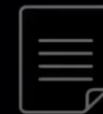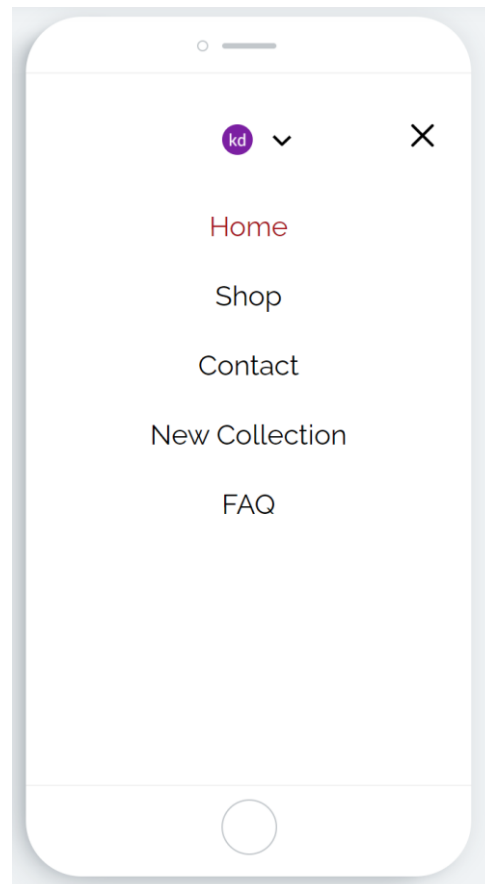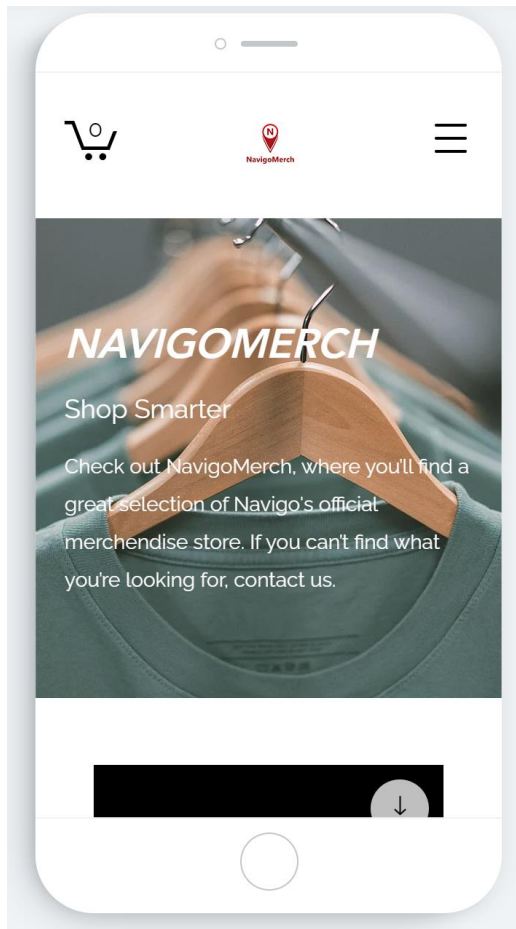
PREVIEW: NAVIGOMERCH MOBILE TEMPLATE
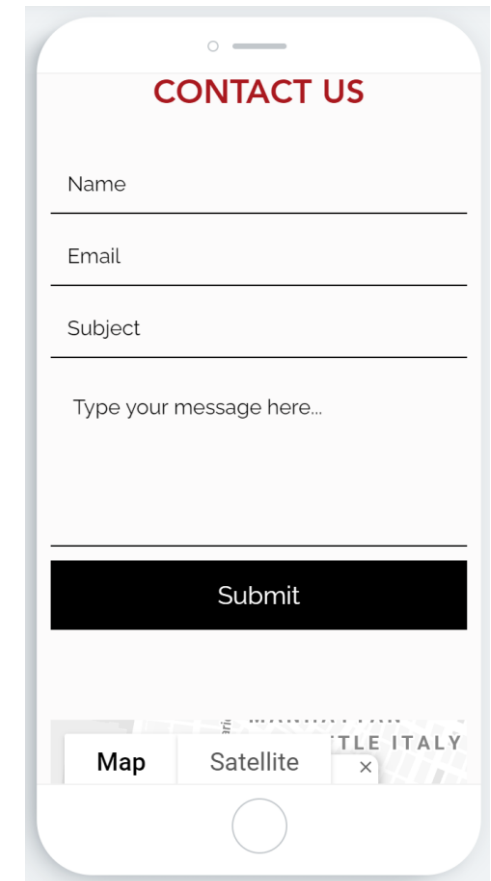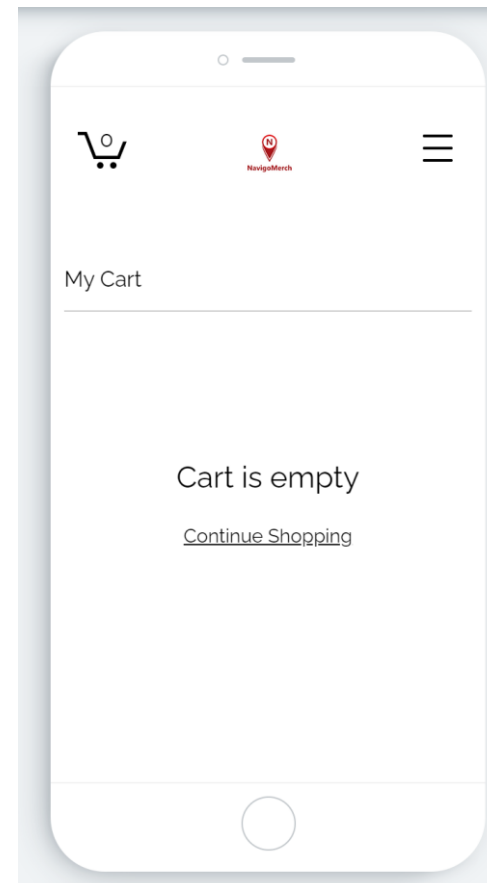
# OUR TEAM



## THE TEAM(clockwise)

Indira Priyadarshini - Product Owner/Scrum  Master   (is13658n@pace.edu)

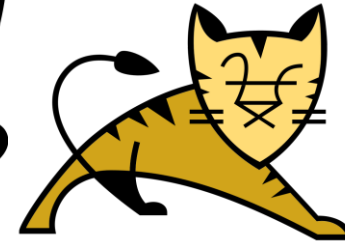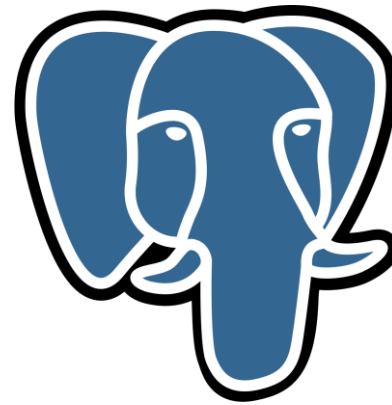Kartik Kannan - Database Admin(kk96691n@pace.edu)

Sai Bharath Reddy V - Backend Developer (sv90693n@pace.edu)

Pranav Kullappa - QA (pk73658n@pace.edu)

Rahul Shah - Backend Developer (rs15193n@pace.edu)

Sunil Kumar - Frontend/Backend Developer(sm12210n@pace.edu)

# TECHNOLOGIES

- Navigo Web application: https://navigo4u.com/

- Navigo Merch          : https://www.navigomerch.store/

- Team Wiki              : https://github.com/CS691-001/Project-1/wiki

- Repositories           : https://github.com/CS691-001/Project-1

- Jira                    : https://navigo4u.atlassian.net

# Thank you