Agile Assignment 2

Student Data:

-Name: Kareem Ayman Farouk Hassan.

-ID: 18P6994

-Group: Group 1

-Section: Section 2

-Email: [kareemkimo575@gmail.com](mailto:kareemkimo575@gmail.com)

-Jira Website: k-development0101.atlassian.net

-GitHub Repository: <https://github.com/Kareem00101/Agile-Project-Documentation>

Text

Description automatically generated

Contents

[GlobalShopApp Project 6](#_Toc91780019)

[Short description of the project: 6](#_Toc91780020)

[Teams 6](#_Toc91780021)

[Members strong in Front-End Development 6](#_Toc91780022)

[Members strong in Back-End Development 6](#_Toc91780023)

[Members strong in various testing techniques 7](#_Toc91780024)

[Product Owner and Scrum Master 7](#_Toc91780025)

[Possible Stakeholders 7](#_Toc91780026)

[Near Vision 8](#_Toc91780027)

[Sprint 1 8](#_Toc91780028)

[Sprint 2 8](#_Toc91780029)

[Jira Setting Up Screenshots 9](#_Toc91780030)

[Epics and Story Creation 12](#_Toc91780031)

[Epics Creation 12](#_Toc91780032)

[Story Creation Method 14](#_Toc91780033)

[Story Points 15](#_Toc91780034)

[Epics with Child Stories Screenshot 16](#_Toc91780035)

[Created Stories with Associated Tasks (substories) 18](#_Toc91780036)

[Screenshots with Additional Information 22](#_Toc91780037)

[Product Backlog 23](#_Toc91780038)

[Product Backlog Screenshot 23](#_Toc91780039)

[Product Backlog Ordering Rationale 23](#_Toc91780040)

[Moving from Product Backlog to Sprint Backlog Method 24](#_Toc91780041)

[Story Decomposition into Sub Stories 25](#_Toc91780042)

[Workflow 26](#_Toc91780043)

[How to create and use workflows in Jira 26](#_Toc91780044)

[Rationale for the used Workflow 27](#_Toc91780045)

[Why simple workflow? 28](#_Toc91780046)

[Implicit meaning behind workflow columns 28](#_Toc91780047)

[Story Points in More Details + Team Velocity 30](#_Toc91780048)

[Sprint 1 Kanban 31](#_Toc91780049)

[Day 0 31](#_Toc91780050)

[Day 5 31](#_Toc91780051)

[Day 10 32](#_Toc91780052)

[Day 20 33](#_Toc91780053)

[Day 25 34](#_Toc91780054)

[Day 28 35](#_Toc91780055)

[Sprint 2 Kanban 37](#_Toc91780056)

[Day 0 37](#_Toc91780057)

[Day 5 38](#_Toc91780058)

[Day 13 39](#_Toc91780059)

[Day 19 40](#_Toc91780060)

[Day 24 41](#_Toc91780061)

[Day 28 42](#_Toc91780062)

[Moving Incomplete Stories to the product Backlog 43](#_Toc91780063)

[Sprint Documentation 44](#_Toc91780064)

[Sprint One Documentation 44](#_Toc91780065)

[General Idea and Sprint Size 44](#_Toc91780066)

[Previous Sprint Data and Input 44](#_Toc91780067)

[Stories Moved from the Product Backlog to the Sprint 44](#_Toc91780068)

[Epics Covered During this Sprint 44](#_Toc91780069)

[Completed Stories 44](#_Toc91780070)

[Completed Tasks 44](#_Toc91780071)

[Stories Moved Back to the Product Backlog 44](#_Toc91780072)

[Obstacles Faced during the Sprint 44](#_Toc91780073)

[Did the sprint match the initial vision? 44](#_Toc91780074)

[Sprint Two Documentation 44](#_Toc91780075)

[General Idea and Sprint Size 44](#_Toc91780076)

[Previous Sprint Data and Input 44](#_Toc91780077)

[Stories Moved from the Product Backlog to the Sprint 45](#_Toc91780078)

[Epics Covered During this Sprint 45](#_Toc91780079)

[Completed Stories 45](#_Toc91780080)

[Completed Tasks 45](#_Toc91780081)

[Stories Moved Back to the Product Backlog 45](#_Toc91780082)

[Obstacles Faced during the Sprint 45](#_Toc91780083)

[Feedback for Further Sprints 45](#_Toc91780084)

[Did the sprint match the initial vision? 45](#_Toc91780085)

[Daily Scrum Document 46](#_Toc91780086)

[Sprint 1 Example 46](#_Toc91780087)

[Sprint 2 Example 46](#_Toc91780088)

List Of Figures

[Figure 1 Setting Up #1 9](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780089)

[Figure 2 Setting Up #2 9](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780090)

[Figure 3 Setting Up #3 10](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780091)

[Figure 4 Setting Up #4 10](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780092)

[Figure 5 Setting Up #6 11](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780093)

[Figure 6 Setting Up #5 11](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780094)

[Figure 7 Creating First Epic 12](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780095)

[Figure 8 Creating Second Epic 12](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780096)

[Figure 9 Creating Epic #3 13](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780097)

[Figure 10 Epic Viewing After Creation 13](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780098)

[Figure 11 Creating a user story method 14](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780099)

[Figure 12 Linking a story as an issue to an epic method 14](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780100)

[Figure 13 Assigning the story to members method 15](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780101)

[Figure 14 Assigning the story to a sprint and adding story points method 15](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780102)

[Figure 15 Access and Authentication Epic with Its child stories 16](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780103)

[Figure 16 Various Secure Payment Methods Epic 16](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780104)

[Figure 17 Products Viewing and Selection Epic with Its child stories 17](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780105)

[Figure 18 How to add a child story to an Epic 17](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780106)

[Figure 19 Cart Page Story with Tasks 18](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780107)

[Figure 20 Product Display Page Story with Tasks 18](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780108)

[Figure 21 Sign Up Page Story with Tasks 19](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780109)

[Figure 22 Login Page Story with Tasks 19](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780110)

[Figure 23 Storing Accounts Story with Tasks 20](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780111)

[Figure 24 Password Recovery Story with Tasks 20](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780112)

[Figure 25 Different Users Story 21](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780113)

[Figure 26 Safe and Secure Access Story with Tasks. 21](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780114)

[Figure 27 Products Filtering Story 21](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780115)

[Figure 28 Product Rating Story 21](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780116)

[Figure 29 Writing Comments in Jira 22](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780117)

[Figure 30 Assigning story to a user 22](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780118)

[Figure 31 We can also add a label/start/Due Data for stories/epics 22](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780119)

[Figure 32 Product Backlog 23](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780120)

[Figure 33 We can move from product backlog to the sprint backlog by dragging 24](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780121)

[Figure 34 Start sprint with start button and choose duration 24](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780122)

[Figure 35 Choose to manage workflow to start designing your workflow 26](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780123)

[Figure 36 Adding status and updating the workflow buttons 26](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780124)

[Figure 37 Transition creating and naming 26](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780125)

[Figure 38 Adding Rules 27](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780126)

[Figure 39 Detailed Workflow 27](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780127)

[Figure 40 Basic Simplified Workflow 28](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780128)

[Figure 41 Stories in To Do List and will move in the following days 31](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780129)

[Figure 42 Sprint 1 Day 5 ss1 31](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780130)

[Figure 43 Sprint 1 Day 5 ss2 32](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780131)

[Figure 44 Sprint 1 Day 10 ss1 32](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780132)

[Figure 45 Sprint 1 Day 10 ss2 33](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780133)

[Figure 46 Sprint 1 Day 20 ss1 33](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780134)

[Figure 47 Sprint 1 Day 20 ss2 34](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780135)

[Figure 48 Sprint 1 Day 25 ss1 34](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780136)

[Figure 49 Sprint 1 Day 25 ss2 35](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780137)

[Figure 50 Sprint 1 Day 28 35](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780138)

[Figure 51 Sprint Completion on Jira 36](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780139)

[Figure 52 Sprint 2 Kanban Day 0 ss1 37](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780140)

[Figure 53 Sprint 2 Kanban Day 0 ss2 38](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780141)

[Figure 54 Sprint 2 Kanban Day 5 38](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780142)

[Figure 55 Sprint 2 Kanban Day 13 39](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780143)

[Figure 56 Sprint 2 Kanban Day 19 40](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780144)

[Figure 57 Sprint 2 Kanban Day 24 41](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780145)

[Figure 58 Sprint 2 Kanban Day 28 42](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780146)

[Figure 59 Moving Incomplete stories back to the backlog 43](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780147)

[Figure 60 Stories moved back to the backlog 43](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780148)

[Figure 61 Sprint 1 Daily Scrum Example 46](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780149)

[Figure 62 Sprint 2 Daily Scrum Example 46](file:///C:\Users\progr\Desktop\Fall%202021\Semester%207\Agile%20Software\Assignment%202\Submission\Agile_18P6994_Assg2.docx#_Toc91780150)

# GlobalShopApp Project

## Short description of the project:

This project aims to build an open-source dynamic E-commerce website like Talabat or El Menus Applications, where the shop owners will be able to upload their shop data and customers can interact with the website GUI to navigate and buy what they desire.

## Teams

**Disclaimer: I’m aware that using agile concepts, the distribution of teams may not be exactly valid, however this division of teams aims to signify the strengths of each of the members.**

**We assume the basic T shaped skills of all the members, and the broad knowledge of web development skills/technologies among all the members and this tables only signifies each member strengths.**

### Members strong in Front-End Development

|  |  |  |
| --- | --- | --- |
| Team Member Names | Role | Expertise |
| Skylar Gates | React JSX Coding. | React, HTML, CSS, JSX, and JavaScript. |
| Marcus Hudson | Front-End Styling. | CSS, Photoshop, WordPress, JSX, and React. |
| Margot Arthur | UI Design. | Photoshop, Assets Creating, Graphic Design, and Adobe XD. |

### Members strong in Back-End Development

|  |  |  |
| --- | --- | --- |
| Team Member Names | Role | Expertise |
| Olivia Naruto | Database Creation | SQL, Mongo, MySQL, Oracle, and Database Linking. |
| Hinata Haruki | API Routing | Node JS, Open API, REST API, Express, and JavaScript. |
| Honokaa Minato | JavaScript Coding | JavaScript, Problem Solving, EJS, Node JS, and JSX. |
| Sakura Yamato | Authentication | Firebase, Google Authentication, DB Design, SQL and, JavaScript. |

### Members strong in various testing techniques

|  |  |  |
| --- | --- | --- |
| Team Member Names | Role | Expertise |
| Isabella Bezos | Web Testing | Wireshark, Postman, Debugging, APIs, and automation. |
| Klara Adison | GUI Testing | Black Box Techniques, Selenium IDE, Debugging, and Perfecto. |
| Morgan Erin | Code Testing | Unit Testing, Automation, Integration, Debugging, Black Box Techniques, APIs. |
| Kareem Ayman | Penetration Testing | Reverse Shell Script, Port Scanning, Packet Manipulation, Burp suite and SQL Injection. |

## Product Owner and Scrum Master

* Our Scrum Master will be a part time job, The Scrum Master will be selected from Teams based on the characteristics of our members; those who are aware with all the agile methodologies and principles and are able to follow the Scrum Master responsibilities such as a being a coach, servant leader and exhibits the suitable skills as being patient, knowledgeable, collaborative, … etc. Will be assigned as a part time Scrum Master for the duration of a specific sprint when they do not have much work on hand to avoid conflicts. Members that qualify as a scrum master, based on their characteristics and the ability to handle the scrum master responsibilities are Sakura Yamato, Klara Adison, and Kareem.
* Our Product Owner used to work previously as a product owner in various application development project, he is well knowledgeable in the business domain and got the right amount of a technical background, he is able to manage economics and communicate well with all of the stake holders and technical teams, he proved his skills in grooming the product backlog, and defining acceptance criteria, his very responsible and accountable and his name is Paul Mask.

## Possible Stakeholders

* Primary Stakeholders: Creditors/Sponsors, Shop Owners, Unions, Customer Representatives, and Component Sellers (COTS).
* Secondary Stakeholders: Regulators, Law Experts, Money Handlers such as Bank or Fawry Company.

And of course, depending on how we define stakeholders, some definitions would include the various type of Employees.

## Near Vision

**Note: This is Agile and not waterfall model, therefore we expect to finish a little of everything in each sprint.**

### Sprint 1

By the end of Sprint one, we desire to show our clients/stakeholders a glimpse of their investment, and the capabilities of the project saying that we need to capture and simulate the core features which defines an E-Commerce Website, according to this we can start with implementing an initial version for the product display page and a cart home page.

* Initial design of the cart and product display page, this design shall include only the necessary UI-assets for simulating the product selection and the addition to cart functionality, later in another sprints the UI shall expand to include various of other features and UX friendly methods.
* Initial design of the database including the implementation of a basic shop-product tables so that it can be displayed in our discussed simple initial UI.
* Necessary routing implementation for displaying the desired UI of this sprint through a local server.
* Simple usage of an online free open API, to give the client an idea of how things will look like.
* Linking of the implemented code.
* Designing necessary testing units for testing the code implemented later.

We expect the usage of node, express, react, adobe XD, MySQL for the required development in this sprint, and we expect the sprint to take about 4 weeks.

### Sprint 2

In Sprint two we expect an input of a basic functionality of addition/removal of products in and out of a cart through interactions with the product display page, and we desire to have a complete implementation of login/signup pages which is discussed as follows:

* UI Design of Login/Signup pages, this includes the design of necessary assets required to create this page.
* Ability to signup either as a customer or a shop owner.
* Implementation of a database table to store the user authentication information.
* UI/Integration Testing and debugging of the previous input.
* Researching various methods for login/signup penetration testing, so that the testing can be ready in an upcoming sprint.
* Necessary routing implementations for displaying the two pages.

We Expect this sprint to take about 4 weeks, and usage of the previously mentioned tools/technologies.

# Jira Setting Up Screenshots

Graphical user interface, application, email

Description automatically generated

Figure Setting Up #1

Graphical user interface, application

Description automatically generated

Figure Setting Up #2

Graphical user interface, application, Teams

Description automatically generated

Figure Setting Up #3

Graphical user interface, application, Teams

Description automatically generated

Figure Setting Up #4

Graphical user interface, application

Description automatically generated

Figure Setting Up #6

Graphical user interface, application, Teams

Description automatically generated

Figure Setting Up #5

# Epics and Story Creation

**Note: I summarized the Epic description In** Epics with Child Stories Screenshot **Section (final version after creation please check this section)**

## Epics Creation

Graphical user interface, text, application

Description automatically generated

Figure Creating First Epic

Note the following screenshots include how I created the epics and their descriptions, and the last screenshot shows how the epic finally look like after creation.

Further assignment details, story points will be presented in the story section.

Graphical user interface, text, application, Teams

Description automatically generated

Figure Creating Second Epic

Graphical user interface, text, application, email

Description automatically generated

Figure Creating Epic #3

Graphical user interface, text, application

Description automatically generated

Figure Epic Viewing After Creation

## Story Creation Method

Note I will skip the screenshots of the creation of each story on its own, since I already presented the creation method in the following screenshots, however I will present to you the final version of the stories I have created in another section.

Graphical user interface, application

Description automatically generated

Figure Creating a user story method

Graphical user interface, application, Teams

Description automatically generated

Figure Linking a story as an issue to an epic method

Table

Description automatically generated with low confidence

Figure Assigning the story to members method

Background pattern

Description automatically generated

Figure Assigning the story to a sprint and adding story points method

### Story Points

Story points are important, they act as a measure of how much time/effort should the story take to finish, however there are multiple conventions for what’s equivalent to a story point in this report we will the following convention:

First, we will use Fibonacci sequence for the story size scaling which goes as following **1, 2, 3, 5, 8, 13, 21, 34.** And we estimate an Epic to be around 100 of story points where each story point represents third of a day worth of working.

Small stories should be about 5 to 8 points, medium stories should be 13 points and large stories can take up to 40 points, but notice rounding up for large stories aka if a story is 21 points, we write it as 20 (modified Fibonacci).

Notice that these measures are based on pervious experiences.

More details on story point and team velocity in: Story Points in More Details + Team Velocity.

## Epics with Child Stories Screenshot

Graphical user interface, text, application, email

Description automatically generated

Figure Access and Authentication Epic with Its child stories

Graphical user interface, text, application, email

Description automatically generated

Figure Various Secure Payment Methods Epic

Graphical user interface, text, application, email

Description automatically generated

Figure Products Viewing and Selection Epic with Its child stories

Graphical user interface, text, application

Description automatically generated

Figure How to add a child story to an Epic

## Created Stories with Associated Tasks (substories)

Graphical user interface, text, application, email

Description automatically generated

Figure Cart Page Story with Tasks

Graphical user interface, application

Description automatically generated

Figure Product Display Page Story with Tasks

Graphical user interface, text, application, email

Description automatically generated

Figure Sign Up Page Story with Tasks

Graphical user interface, text, application, email

Description automatically generated

Figure Login Page Story with Tasks

Graphical user interface, text, application, email

Description automatically generated

Figure Storing Accounts Story with Tasks

Graphical user interface, text, application, email

Description automatically generated

Figure Password Recovery Story with Tasks

Graphical user interface, text, application

Description automatically generated

Figure Different Users Story

Graphical user interface, text, application

Description automatically generated

Figure Safe and Secure Access Story with Tasks.

Graphical user interface, application

Description automatically generated

Figure Products Filtering Story

Graphical user interface, text

Description automatically generated

Figure Product Rating Story

## Screenshots with Additional Information

Graphical user interface, text, application, email

Description automatically generated

Figure Writing Comments in Jira

**Note: A story can have multiple members working on it in Agile Methodology, but Jira has limitations regarding this functionality.**

Graphical user interface, application

Description automatically generated

Figure Assigning story to a user

Graphical user interface

Description automatically generated with medium confidence

Figure We can also add a label/start/Due Data for stories/epics

# Product Backlog

## Product Backlog Screenshot

Application

Description automatically generated with low confidence

Figure Product Backlog

## Product Backlog Ordering Rationale

The items in the product backlog were ordered according to their priority; The priority of an item was offered based on its business value or ROI, You can clearly see that we picked up the core features that make up an E-Commerce website at first, Every E-Commerce website is built upon three main features, which are the ability to select and navigate products of a certain shop, The ability to securely purchase the products via various payment methods and of course to achieve all of this we need different types of users and accounts.

If you were to ask what would come next in our product log, this will be the implementation of various payment methods since as described this is one of the three core features that build up an E-commerce website.

One more reason we have chosen this order is to show the stakeholders a satisfying output at the beginning of the work, and to give them a bigger picture and idea about the project, this can only be done by showing them an example of a displayed products and adding them to their cart, so to do that we had to start with implementing the product display and cart pages.

Other reasons we choose to put Access and Authentication stories in the top, Is a technical reason, because this feature will be crucial in implementing the upcoming features and performing various types of testing especially penetration testing which falls under the umbrella of security testing and of course any E-Commerce website must be secure or we would rather have a catastrophic consequences.

# Moving from Product Backlog to Sprint Backlog Method

Notice: I’m only showing one example of how to move, since this is sufficient to prove that I’m able to perform this functionality. (And I also noticed the need of the screenshot after finishing sprint 1 :/).

**Notice that my sprint duration is 4 weeks for both sprints.**

Graphical user interface, application, Teams

Description automatically generated

Figure We can move from product backlog to the sprint backlog by dragging

Graphical user interface, application

Description automatically generated

Figure Start sprint with start button and choose duration

# Story Decomposition into Sub Stories

**Please check the section:** Created Stories with Associated Tasks (substories) **To view the substories (tasks) that I have divided into each story.**

**You can also find the sub stories of the sprints in the Sprint Kanban Sections.**

# Workflow

## How to create and use workflows in Jira

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure Choose to manage workflow to start designing your workflow



Figure Adding status and updating the workflow buttons

Graphical user interface, application, Teams

Description automatically generated

Figure Transition creating and naming

Graphical user interface, application, Teams

Description automatically generated

Figure Adding Rules

## Rationale for the used Workflow

![Diagram

Description automatically generated]()

Figure Detailed Workflow

Graphical user interface, text

Description automatically generated

Figure Basic Simplified Workflow

### Why simple workflow?

* Team is experienced and familiar with agile methodologies and able to work a simple workflow.
* The other phases of the detailed workflow still exist but under the umbrellas of the presented phases.
* Testing phase is performed as an individual task therefore there is no need to include a testing column.
* Review phase is performed as an individual task either explicitly in form of testing and debugging or tasks therefore no need to include it.
* **Testing/Debugging stories include improving any minor issues in the functionalities of the implemented stories that has been marked as done.**

#### **Note for major and debatable test results:**

*Testing/debugging of tasks/stories are performed to test some of the functionalities or stories.****If a story is found to be need improvements,*** *then the testing report is discussed later on in the sprint review phase only afterwards a new task or story is added to the product backlog in order to fix the previous story later on in another sprints but the completed story itself is not pushed back during the sprint unless it got a catastrophic test results it’s case can be re-opened.* I’m aware and I apologize if this convention is against the popular conventions.

### Implicit meaning behind workflow columns

#### TO DO

##### Ready

* Represents the tasks and stories that has been at the top of the product backlog and moved to the sprint backlog by the product owner and they follow the definition of ready all they await is to start working on.

##### Rejected

* Rejected work is moved back to the to do representing that the same story needs to re-done in a different way to get accepted.
* Rejected work due to a change of business value is also pushed back to the to-do column however this work will await there till the end of the sprint and be pushed back again to the product backlog where it will be re-evaluated or discarded by the product owner.

#### In Progress

* Represents the stories/tasks that we are already working and awaits to be completed.
* It’s the work that the team is currently working on once it’s finished it pushed to the done status.
* A work in progress can get rejected for many reasons and the dealing with it is mentioned in the to do section.
* The product can observe work in progress so that he can fulfill his duties.

##### Designing

* This phase includes designing any necessary designs for the task, as for example designing a database schema.
* This phase also includes effort done in researching various implementation methods.

##### Implementing

* This phase represents the actual Implementing/Exporting/Running of the tasks.

#### Done

This phase includes two implicit phases:

##### Resolved

* This includes stories/tasks that has been completely implemented by the developers.
* Stories in this phase can be reopened in case of major issues in the testing results or a significant change in the stakeholder’s desire.

##### Closed

* This represents tasks/stories that has been implemented/performed by the developing team and got approved by the product owner and marked as finished.
* Of course, the product owner’s approval reflects the stakeholder’s approval.

# Story Points in More Details + Team Velocity

For our story points scaling we will be using Fibonacci sequence scaling which goes as 1,2,3,5,8,13,21,34.

However, we will be using a modified Fibonacci sequence for our estimations where it goes like 1,2,3,5,8,13,20,30,40.

Since story points are just an estimate, saying 21 makes it feel like we are precise, but we are not precise we are not if it will take 21 so we round up 21 to 20, so that we are clear that this story points are just an estimate, same goes for any story points numbers above 20 we will always be rounding them up down.

We estimate that 3 story points can be done in a single day or are equivalent to a day worth of effort.

Of course, we build those conventions and estimation based on our previous experiences working with this team, and the conventions may vary from a company to another or even from a project to another depending on the team size and their experiences.

Our projects tend to be huge; therefore, our story points might have a greater value than the usual, also you can find that our Sprint uses the maximum size often, which is 4 weeks.

Based on previous experiences and you can also notice this in Sprint 1 Kanban and Sprint 2 Kanban, Our team is able to finish an estimate of 55 to 65 story points per sprint aka per 4 weeks.

So, you can find out that our team estimated velocity is about 55 to 65 story points per sprint.

For more clarification on our conventions, we estimate that:

* 5 to 8 story points represents a small sized story.
* 13 story points represents a medium sized story.
* 20 story points represents a large sized story.
* 30 – 40 story points represents a huge story that must be divided into substories.
* 100 points is the size of an Epic that can be done on two sprints.
* 140 to 180 points is the size of a Large Epic that needs 3 sprints (months) to finish.

Beyond this point we will be using T-shirt sizes as L-XL-XXL referring to large initiatives which are a collection of Epics.

# Sprint 1 Kanban

**Note that my sprint durations are 4 weeks therefore they will take about 30 days.**

**Note: Testing/Debugging stories include improving any minor issues in the functionalities of the implemented stories that has been marked as done,** for major and debatable results the action taken is discussed in the previous workflow section.

**Note:** Assumption of smooth flow of sprints with no major changes.

## Day 0

Graphical user interface, text, application

Description automatically generated

Figure Stories in To Do List and will move in the following days

## Day 5

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure Sprint 1 Day 5 ss1

Graphical user interface, text, application

Description automatically generated

Figure Sprint 1 Day 5 ss2

## Day 10

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure Sprint 1 Day 10 ss1

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure Sprint 1 Day 10 ss2

## Day 20

Graphical user interface, text, application

Description automatically generated

Figure Sprint 1 Day 20 ss1

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure Sprint 1 Day 20 ss2

## Day 25

Graphical user interface, application

Description automatically generated

Figure Sprint 1 Day 25 ss1

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure Sprint 1 Day 25 ss2

## Day 28

Graphical user interface, application, Teams

Description automatically generated

Figure Sprint 1 Day 28

Graphical user interface, application

Description automatically generated

Figure Sprint Completion on Jira

# Sprint 2 Kanban

**Note that my sprint durations are 4 weeks therefore they will take about 30 days.**

**Note: Testing/Debugging stories include improving any minor issues in the functionalities of the implemented stories that has been marked as done,** for major and debatable results the action taken is discussed in the previous workflow section.

**Note:** Assumption of smooth flow of sprints with no major changes in business value or rules.

## Day 0

Graphical user interface, application, Teams

Description automatically generated

Figure Sprint 2 Kanban Day 0 ss1

Graphical user interface

Description automatically generated

Figure Sprint 2 Kanban Day 0 ss2

## Day 5

Graphical user interface, application, Teams

Description automatically generated

Figure Sprint 2 Kanban Day 5

## Day 13

Graphical user interface, application

Description automatically generated

Figure Sprint 2 Kanban Day 13

## Day 19

Graphical user interface, application, Teams

Description automatically generated

Figure Sprint 2 Kanban Day 19

## Day 24

Graphical user interface, application, Teams

Description automatically generated

Figure Sprint 2 Kanban Day 24

## Day 28

Graphical user interface, application, Teams

Description automatically generated

Figure Sprint 2 Kanban Day 28

**Notice: The failure to complete some of the stories, thus this story will move back to the product Backlog and remaining tasks will be completed later.**

## Moving Incomplete Stories to the product Backlog

Graphical user interface, application

Description automatically generated

Figure Moving Incomplete stories back to the backlog

Graphical user interface, application

Description automatically generated

Figure Stories moved back to the backlog

# Sprint Documentation

## Sprint One Documentation

### General Idea and Sprint Size

This sprint duration is four weeks, in this sprint we planned to finish the basic main functionality of the product display and cart pages, and the estimate size is 60 story points.

### Previous Sprint Data and Input

This is the first sprint, no previous data recorded.

### Stories Moved from the Product Backlog to the Sprint

We can see that two stories were moved from the product backlog to the sprint backlog which are the product display page and cart page stories.

### Epics Covered During this Sprint

This sprint represents a milestone in the product and viewing and selection Epic however the Epic is not complete yet and requires a further sprint.

### Completed Stories

* Product Display Page Story
* Cart Page Story

### Completed Tasks

All tasks associated with the completed stories were completed during this sprint.

### Stories Moved Back to the Product Backlog

This sprint was successful and thankfully nothing was moved back to the product backlog.

### Obstacles Faced during the Sprint

In this sprint we faced some issues connecting to certain and websites and dealing with some APIs, after the contact with the IT/Networking team the problem was smoothly solved, and nothing impacted our performance.

### Did the sprint match the initial vision?

We can clearly see that the sprint has been completed successfully matching our near vision of the sprint.

## Sprint Two Documentation

### General Idea and Sprint Size

This sprint focuses to cover one of the core features for great presentation, business value and opening the way for further sprints and features implementation, this sprint covers 4 main stories from the Access and Authentication Epic, and it’s estimate size is about 70 story points.

### Previous Sprint Data and Input

The previous sprint has been successful and multiple core stories has been completed from the Product Viewing and Selection Epic, however this Sprint will focus on the Access and Authentication app, so it doesn’t directly get any input or benefit from the previous sprint, this decision of change of focus was taken due to the presented business value.

### Stories Moved from the Product Backlog to the Sprint

* Login Page Story
* Sign Up Page Story
* Storing User Accounts Story
* Different Type of Users Story

### Epics Covered During this Sprint

This sprint focuses mainly on the Access and Authentication Epic; however, this requires awaits about more sprints for completion.

### Completed Stories

The Login Page and Sign-Up Page stories were completed in this sprint.

### Completed Tasks

* All tasks under login page story were covered.
* All tasks under signup page were covered.
* Database table for storing user data task was covered from the Storing User Accounts story.
* Implementation of the three-user privilege system was covered from the story Different Type of Users.

### Stories Moved Back to the Product Backlog

* Storing User Accounts
* Different Type of Users

Those two stories were returned to the backlog since not all their substories aka tasks were completed, therefore they will be completed on further sprints.

### Obstacles Faced during the Sprint

In this sprint we faced various issues related to the legality of using some of the penetration testing technologies and tools, however we finally got the acceptance of usage of certain tools for on the scale of the private institution of the company and for nothing else.

### Feedback for Further Sprints

This sprint was estimated to be around 70 story points which is larger than the team estimated velocity, so by the failure of completion of this sprint we can confirm our estimated team velocity which is around 55 to 65 story points per sprint so it’s better to stick to this range for the near upcoming sprints.

### Did the sprint match the initial vision?

We can find that this sprint failed to match the initial near vision presented at first, and this is very normal because one cannot expect everything from the start otherwise there will be no use for agile.

# Daily Scrum Document

## Sprint 1 Example

This first screenshot discusses a day in the middle of week 1 of the Sprint where Margot Arthur and Hinata Haruki were working on the project and illustrating their daily activities.

Graphical user interface, text

Description automatically generated

Figure Sprint 1 Daily Scrum Example

## Sprint 2 Example

Graphical user interface, text, application

Description automatically generated

Figure Sprint 2 Daily Scrum Example

**Note: In the Sprint Kanban and documentation we have assumed that no change in value or major changes has occurred, thus the work has been performed smoothly during them. Thanks :)**