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Practical Exam – Agile Software Engineering

GitHub repo link: <https://github.com/shehabadel/Jumjum>

# Task1

**# Jumjum Ecommerce**

Name: Jumjum Ecommerce

Description: Jumjum is an upcoming e-commerce platform in Egypt made specifically for tech sector. Jumjum will allow Software Engineers and IT employees to discover and explore Electronics, Stacks and Technologies Subscriptions, Deployment plans...etc, with a lot of offers and better navigation. Jumjum is expected to boost the developers’ productivity.

## # Part 1

Product Owner: Omar Bayoumy

Scrum Master: Laila El-Sayed

## ## Scrum Dev Team

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Name** | **Expertise** | **Role** |
| 01 | Arnold | Frontend | Converts UI/UX into frontend code using ReactJS, Bootstrap, and HTML5. |
| 02 | Shawky | Code Reviewer | Maintains source control and refining code. |
| 03 | Hamdy | Backend | Creates API endpoints and ORM model connection to database using MongoDB, ExpressJS, NodeJS, and Mongoose. |
| 04 | Huda | Software Architect | Designs and plans the software modules connections with each other. |
| 05 | Beanuts | DevOps | Responsible for the deployment and containerization using Nginx, Docker, Kubernetes. |
| 06 | Socrates | Unit Tester | Responsible for making unit tests on modules created and follow test-driven development process using Jest. |
| 07 | Muller | API Tester | Makes sure API endpoints sending responses as required |
| 08 | Reem | Animator | Responsible for creating animated designs |
| 09 | Manuel | UI/UX | User interface and experience design, Adobe XD, Figma |

## ## Stakeholders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Role** | **Availability** | **Influence** | **Engagement** |
| Alex Sancho | Investor | Low | High | Keep Satisfied |
| Hansi Flick | Stakeholder | High | High | Actively Engaged |
| Julian Naggelsman | Stakeholder | High | Low | Keep Informed |
| Lionel Pepsi | Subject Matter Expert | Low | Low | Monitor |

## ## Product Vision

Sprint 1: Create a website that shows a marketplace tab which contains a lot of offers for technologies subscriptions, infrastructure plans…etc.

Create a website that has a homepage that contains details about the company and details about the website and what it offers, in addition to a tab that navigates to marketplace page which contains list of offers for technologies, subscriptions, infrastructure plans, and other products. It also contains a search bar that allows the user to search for the desired products by their name. In addition, it contains a filter bar that allows the user to show only relevant results in the marketplace based on his choices like showing subscriptions only, infrastructure plans…etc. The user also will be allowed to register on the website using his personal information like email, password, username. The user also will be able to log into the website using his personal information, which will allow him to interact with the website based on his login credentials.

Sprint 2: Create a feed page that shows feedbacks of users about technologies subscriptions for example, comparisons, and suggestions between the users. In addition, there will be a dashboard for sellers that will allow them to add items that will be shown in the marketplace page and, they will be able to see their selling charts and numbers. The user will also be allowed to add payment methods so that he can complete purchases using it. In addition to checkout page that might contain information about the purchase process.

## ## Story Points Estimation Convention

1-> Very Small User Story

3-> Small User Story

5-> Medium User Story

8-> Large User Story

11-> Very Large User Story

13 and above-> Extra Large User Story (needs to be broken into several tasks)

Each working day takes 3 story points.

## ## Ordering Product Backlog and Rationale

In the first sprint, we selected the homepage and logo to be the highest priority since they are the main component of our website, as it is the first page that the users will see when they open the website. Then, we selected the registration and logging in to be the following product backlog items in the priority in order to allow the user to log into the website and interact with its functionalities. Then, coming to the main functionality of this sprint the user will be able to open the marketplace page which will allow him to explore several offers on infrastructures, subscription plans, technologies, and items as well, the user also will be able filter the results to show user selected tags like Items, or subscription plans…etc. Moving to the next PBI which is the searching functionality, it will allow the users to search for specific items using their title which will be shown in the marketplace page. The PBI are prioritized according to their added business value, the rest of the PBI are expected to be in the second sprint, since they have less business value than the first PBIs in the product backlog.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application, Teams

Description automatically generated

Figure - Product Backlog (Prioritized)

## ## Product Backlog Items assignee for Sprint 1

|  |  |
| --- | --- |
| **Product Backlog Item** | **Assignee** |
| Logging In – Logging In Page Design UI/UX | Manuel, Arnold |
| Logging In – Logging In Page Implementation | Shawky, Hamdy, Huda |
| Logging In – Logging In Page Animation | Reem, Socartes |
| Registration | Shawky |
| Search for Stacks, Technologies, Items, Subscriptions | Huda |
| Appealing Logo and Homepage | Manuel, Reem |
| Marketplace Page – Marketplace Subscription Implementation | Shawky, Beanuts |
| Marketplace Page – Marketplace Filter | Huda, Hamdy |
| Marketplace Page – Marketplace UI/UX Design | Reem, Arnold |

## **##** Product Backlog Items Screenshots

Graphical user interface, application

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Graphical user interface, text, application

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Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

A picture containing graphical user interface

Description automatically generated

Graphical user interface, application

Description automatically generated

Chart

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text

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Graphical user interface, text, application

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Graphical user interface, text, application

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# Task 2

## ## Sprint 1

Day 1

Graphical user interface, application

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Day 3

Graphical user interface, text, application

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Day 5

Graphical user interface, application, Teams

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Day 8

A screenshot of a computer

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Day 12

Graphical user interface, application

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## ## Sprint 2

Day 1

Graphical user interface, application

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Day 3

Graphical user interface, application

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Day 5

Graphical user interface, application, Teams

Description automatically generated

Day 8

Graphical user interface, application

Description automatically generated

Day 12

Graphical user interface, application

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## ## Sprint duration Estimation

It is expected that the team can complete up to 37-39 story points in a sprint.

## ## Sprint workflow

Text

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## ## Workflow Rationale

When the sprint starts, the PBIs are presented inside a TODO state, when we start working on a PBI, we move them inside the In Progress state, then after finishing it; it will be moved into Code Review state where Shawky (Code Reviewer) will review the code finished. If there is a problem the PBI will be rejected and brought back to In Progress state, but if there are no problems with it, it will go to Done state to be deployed and uploaded to the production. Any PBI moved to Done state, it can’t be brought back to the other previous states.

**## Workflow rules**

1. Only Shawky (Code Reviewer) get assigned with the tasks in the Code Review state (Assign Issue to Someone)
2. Only Shawky (Code Reviewer) approves the tasks in Code Review and verify them for deployment (Restrict who can move an issue)

## ## Daily Scrum Document

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Team Member | Question | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Shawky | What did you do yesterday? | Designing the Registration page API endpoints | Implemented on the Registration page | Code Reviewing | Finished the Registration page | Deploying the finished PBI to production. |
| What are doing today? | Implementing the Registration page. | Code Reviewing | Finishing the Registration page. | Deploying the finished PBI to production. | Beta testing |
| Is there anything blocking you? | No. | Yes, a problem with the operations team. | No. | Yes, the server is down. | No. |
| Hamdy | What did you do yesterday? | Integration Testing | Implemented Logging In Functionality | Making Unit tests | Finishing the Logging In Functionality. | Making integration tests. |
| What are doing today? | Implementing Logging In Functionality | Making Unit Tests | Finishing the Logging In Functionality. | Making integration tests. | Design the database |
| Is there anything blocking you? | No. | No. | No. | Yes, the development server was down. | No. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Team Member | Question | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Manuel | What did you do yesterday? | Designing the UI/UX of the PBI | Writing ReactJS code | Code Reviewing | Unit Testing for the frontend code. | Deploying the finished PBI to production. |
| What are doing today? | Writing ReactJS code | Code Reviewing | Unit Testing for the frontend code. | Deploying the finished PBI to production. | Beta testing |
| Is there anything blocking you? | No. | No. | No. | No. | No. |
| Huda | What did you do yesterday? | Designing software modules architect | Maintaining implemented code | Reviewing code. | Reviewing server requests and responses | Making integration tests. |
| What are doing today? | Maintaining implemented code | Reviewing code. | Reviewing server requests and responses | Deployment of new features | Design the database |
| Is there anything blocking you? | No. | No. | Cloud services were down | Yes, the development server was down. | No. |

## ## Sprint Document

**###Sprint 1**

Since this is the first sprint, there were no previous sprints.

On this sprint, we did the presented the following features

1. Navigate the website’s homepage
2. Create an account on the website
3. Log into the website
4. Navigate in the Marketplace tab
5. Search by stacks technologies, products, subscriptions, infrastructure plans on the Marketplace.

**###Sprint 2**

In the previous sprint, we were able to deliver the following features

1. Website’s Homepage
2. Registration
3. Logging in
4. Marketplace page
5. Searching and filtering in Marketplace page.

There were several problems that we faced during the previous sprint which were like with the operations team or with the development server, but these problems did not affect the sprint duration, as the team finished the sprint. This sprint gave us the first preview of our website since they are the main features in our website so far.

In this sprint the user should be able to

1. Add payment method to his profile
2. Checkout on his desired items to complete purchasing process
3. The seller should be able to add items to his dashboard so that they will be presented on the Marketplace, and he will be able to find insights on his numbers.
4. The user should be able to navigate to feed page where he can see comparisons and discussions on several products, infrastructure plans, subscriptions…etc.

There were several problems related to cloud hosting services and Jira Management, as the cloud hosting services went down for several hours and came back online shortly. In addition, that we had to re-open the sprint again from the Reports and Burndown charts as there was a task that was not completely finished. Moving on with the previous sprint, this sprint continues presenting main features as well, which are a part of the first release of our website.