

IT 320 Course Project Semester-2, 1446H



# Software Product Release منجز Monjez

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Chapter 1: Introduction

In a fast-paced world, task management and organization have become essential for maintaining productivity. This project falls under the field of digital task management and assistive technology, aiming to facilitate planning and prioritization effectively. With the increasing reliance on digital solutions, the need for specialized platforms to manage tasks and shopping lists has become more critical than ever. Many people struggle to keep track of their daily activities and complete them on time, leading to task accumulation or forgetfulness. Additionally, inefficient shopping list management can result in forgetting essential items or purchasing unnecessary products, emphasizing the need for a digital solution that provides a structured and flexible environment to help users manage their tasks and requirements efficiently.

Technological solutions play a key role in providing a more efficient alternative to traditional methods, such as using pen and paper, by reducing clutter and enhancing personal planning. Globally, task management platforms contribute to increased productivity for individuals and businesses alike while supporting the transition to a more sustainable digital environment. Locally, providing a platform that meets users' specific needs enables them to streamline their daily lives more effectively, allowing for better decision-making regarding tasks and purchases.

In this document, we will explore the challenges people face in organizing their daily activities, and introduce the proposed solution: **Monjez**, a platform designed to enhance these processes and boost productivity. We will provide a brief overview of the platform's features and user experience, which will be outlined through the objectives. Additionally, we will present the product vision, roadmap, and scope, which will define the boundaries of the platform. Finally, we will introduce the scrum team responsible for its development.

In the next section, we will define the problem and discuss the existing gaps that highlight the need for a more efficient and flexible platform like **Monjez**.



#### 1.4 The Problem

Many people struggle with managing and organizing their daily tasks efficiently, often finding it difficult to prioritize their responsibilities and complete tasks on time. Many still rely on the traditional method of using pen and paper to jot down their tasks, which can be inconvenient and inefficient. This method lacks structure and engagement, making it easy for users to forget tasks or lose track of their progress. For example, a stay-at-home parent juggling multiple household responsibilities may find it challenging to keep track of daily chores and important errands. Similarly, a university student may struggle to keep track of assignment deadlines, causing tasks to pile up and be completed at the last minute. Therefore, there is a growing need for a platform that helps users digitally organize their tasks, stay motivated, and increase their productivity with ease. In the next section, we will explore how **Monjez** provides an intelligent and effective solution to enhance the task management experience.

#### 1.5 The Solution

The solution we propose to the discussed problem is a website called **Monjez**, designed to simplify task management and help users stay organized and productive. The website provides a streamlined experience that enables individuals to track their tasks, set priorities, and stay committed to their responsibilities without feeling overwhelmed or distracted. **Monjez** focuses on making task management more flexible and motivating, helping users avoid forgetting important tasks and achieve their goals efficiently. By offering tools that support time organization and productivity enhancement, the website becomes an effective way for users to manage their daily responsibilities with clarity and ease. Additionally, **Monjez** includes a dedicated shopping list section that allows users to track items, specify quantities, and manage purchases easily, providing a more structured shopping experience unlike relying on pen and paper. This feature ensures users can efficiently handle both their daily tasks and shopping needs in one place.

In the next section, we will present the product vision for **Monjez**, outlining its objectives and how it aims to improve the user experience in task management.



#### 1.6 The Product

#### 1.6.1 Product Vision

For all people who want to organize and arrange their tasks and the items they need to buy in one place where they can easily find them, The Monjez is a website that helps users stay organized, motivated, and productive. It provides an intuitive and engaging task management experience, including a dedicated shopping list section to track items, specify quantities, and manage purchases easily. Unlike a "to-do" application. Our product offers a more flexible and motivating approach, incorporating productivity-enhancing tools and a seamless shopping list feature to ensure users stay committed to their responsibilities with ease and clarity.

In the next section, we will present the Product Roadmap for **Monjez** that outlines the key milestones and timeline for the development and deployment of the website.

#### 1.6.2 Product Roadmap



Figure 1 Product Roadmap

In this section, we will show the Roadmap of **Monjez** website, which demonstrates how the website will be built and delivered over time, as shown in figure 1-1

In the next section, we will present the Objectives of Monjez that outline the specific goals that the project aims to achieve.



#### 1.6.3 Objectives

In this section, we will give a detailed breakdown of our objectives during our journey in developing **Monjez** website project across three levels: Product, Project, and Learning.

#### **Product Objectives (Customer Focus - Value):**

- User Account Creation: Allow user to create an account to sign in the website and log in/out whenever they want
- User-friendly Interface: Design an intuitive and visually appealing interface for seamless navigation.
- Task Management: Allow users to create, edit, delete tasks effortlessly, and search and view all the added tasks.
- o **Due Dates**: Enable users to set due dates to stay on track.
- Priority Levels: Provide options to categorize tasks by priority (low, medium, high) to aid in task management.
- Progress Tracking: Offer visual indicators or charts to help users track their task completion rates.
- Customization Options: Allow users to customize themes and layouts to enhance user experience.
- Shopping List Categorization and Quantity Management: Allow users to add items and specify their quantities and organize these items into categories.

#### **Project Objectives (Solution Focus - Plan):**

- o Market Research: Conduct surveys and interviews to understand user needs and preferences.
- o **Define Requirements**: Write detailed specifications for features based on user feedback.
- o **Design UI/UX**: Create wireframes and prototypes for the website interface.
- o **Develop Frontend**: Build the user interface.
- o Develop Backend.
- o **Testing and Quality Assurance**: Conduct user acceptance testing.
- o **Gather Feedback**: Collect user feedback post-launch for future improvements.



#### **Learning Objectives (Student Focus):**

- Agile Methodology: Experience working in an agile development environment, including sprints.
- o **Testing Strategies**: Learn various testing methodologies and tools to ensure code quality.
- User-Centric Design: Develop skills in gathering and analyzing user feedback to drive product improvements.
- o New Programming Language: Gain proficiency in a programming language (XML).
- Integrated Development Environments (IDEs): Gain proficiency in using an IDE (Visual studio).

In the next section, we will present the Scope for **Monjez** that will define the work required for achieving our projects goals.

#### 1.6.4 Scope

In this section, we will define the limitations of our website and what is outside our scope, which will be considered for future work.

**Monjez** is a website compatible with all operating systems that support modern web browsers. It is designed to simplify task management and boost productivity. The website supports English and offers features such as task prioritization, adding, editing, deleting, viewing, searching, and a dedicated shopping list for easy tracking. **Monjez** provides an engaging and efficient way to stay organized effortlessly. Smart reminders or notifications are out of scope for this website, and it does not support multiple languages.



Scrum Team		
Product Owner:	Layal Alghamdi	
	Njoud Alduraibi	
Developers:	Nuran Alosaimi	
	Alhanouf Alkhudhayri	
	Layal Alghamdi	
Scrum Master (SM):	Dr. Reem Alqifari	
Stakeholders:	Dr. Reem Alqifari	

Table 1 Define the scrum team.



2 Chapter2: Domain Analysis

#### 2.1 Background

Before using **Monjez**, a to-do website with a specialized shopping feature, users must understand certain key concepts to make the most of its functionalities. **Monjez** is designed to help individuals efficiently manage both their daily tasks and shopping needs within a single platform.

#### **Domain Knowledge**

**Monjez** operates at the intersection of task management and shopping list organization. To fully utilize the platform, users should be familiar with the following key areas:

#### • Task Management Systems:

- A to-do list is a type of task management system that helps individuals organize their time effectively.
- Users can create tasks, set deadlines, categorize tasks, and prioritize them based on urgency or importance.
- A bar chart is provided to help users track their progress and visualize the amount of work they
  have completed, offering a clear overview of their achievements.

#### • Shopping List Management:

- o A shopping list is a collection of items that a user plans to purchase.
- o Users can categorize shopping list items by store to streamline their shopping experience.
- Organizing a shopping list efficiently helps prevent forgotten purchases and reduces unnecessary spending.

#### • Interface Navigation:

- Monjez is designed to be user-friendly, with an intuitive layout that allows users to quickly add,
   edit, and delete tasks or shopping items.
- o Understanding how to navigate menus, buttons, and settings will enhance usability.



#### **Problem Domain**

Many individuals struggle with keeping track of both their daily tasks and shopping needs. Existing task management tools primarily focus on general to-do lists, requiring users to switch between separate apps for shopping lists and other planning tasks. This fragmentation leads to inefficiencies and disorganization.

**Monjez** addresses this problem by combining to-do lists and shopping lists into a unified system. Users no longer need to use multiple apps; instead, they can efficiently manage both types of lists within one platform. The ability to categorize shopping items makes the shopping experience smoother and more organized.

#### **Solution Domain**

To effectively use **Monjez**, users should have some foundational knowledge about managing tasks and shopping lists efficiently. Understanding the following concepts will help users make the most of the platform:

- Task Creation and Prioritization: Users should understand how to create tasks, assign priority levels (high, medium, low), and set deadlines to ensure timely completion.
- **Shopping List Organization:** Users should be familiar with categorizing shopping items by category which helps streamline their shopping experience and avoid forgotten purchases.
- **Navigation and Customization:** Familiarity with basic website navigation, such as adding, editing, and deleting items, as well as customizing categories, will enhance usability.

#### **Important Definitions**

- **To-Do List:** A tool used to track and organize tasks that need to be completed. It often includes prioritization, deadlines.
- **Shopping List:** A list of items a person intends to purchase, organized by category for efficiency.
- **Task Management:** The process of organizing and tracking tasks to improve productivity and ensure completion.

By understanding these concepts, users can leverage **Monjez** to optimize their daily planning, improve efficiency, and maintain an organized workflow for both their personal and shopping-related tasks.



#### 2.2 Literature Review

Before developing **Monjez**, we conducted a comprehensive market study to understand user needs and identify existing competitors in the field of task management. Digital applications have become essential tools for time organization and productivity enhancement, as users rely on these platforms to track their daily tasks and plan efficiently.

Initially, task management applications were simple, limited to creating basic lists. However, over time, they evolved to include advanced features such as email integration, habit tracking, and tools to help users prioritize their tasks based on importance and urgency. Despite this progress, there are still gaps in the market, as many applications lack essential features.

To address this gap, we analyzed two of the most popular task management applications, TickTick and Microsoft To Do, and studied their strengths and weaknesses. The goal of this analysis is to understand how **Monjez** can provide a better user experience.

#### **Competitor Analysis:**

**Microsoft To Do** is a free task management application developed by Microsoft to help users organize their daily tasks efficiently.

#### **Features:**

- 1.**Integration with Email (Outlook)** Users can convert emails into tasks directly within Outlook, making it easier to track important tasks without manual entry.
- 2.**Cross-Device Synchronization** Available on Windows, iOS, Android, and Web, allowing users to access their tasks anytime, anywhere.
- 3.**Completely Free** No subscription or in-app purchases are required, making it a cost-effective solution for task management.

#### **Limitations:**

- 1.**No Recycle Bin** Deleted tasks or lists cannot be restored.
- 2.**No Progress Tracking Charts** The app lacks analytics or reports to monitor productivity over time.

**TickTick** was developed by Appest Inc. as a task management tool that helps users efficiently organize their daily tasks. It streamlines task planning, saves time, and enhances productivity.



#### **Features:**

- 1. **Synchronization with Apple Watch and Alexa:** The app allows users to add and manage tasks via voice commands using Amazon Alexa or Siri. Additionally, it provides seamless task tracking through Apple Watch, eliminating the need for a phone.
- 2. **Pomodoro Timer:** Enhances focus and productivity by implementing the 25-minute work + 5-minute break technique. Users can customize session durations and track completed sessions daily to monitor their progress.
- 3. **Eisenhower Matrix:** A powerful tool for time management that categorizes tasks into four main sections based on importance and urgency, helping users make quick and effective prioritization decisions.
- 4. **Habit Tracker:** Enables users to create and monitor daily habits such as exercise, reading, drinking water, or sleeping early. The app also provides statistics and charts to visualize progress and track consistency in habit-building.

#### **Limitations:**

- 1. **Limited Free Version:** The free version includes basic features, while some essential functionalities, such as team collaboration, advanced reports, and unlimited storage for attachments, require a paid subscription.
- 2. **No Full Offline Support:** While tasks can be viewed without an internet connection, modifications and synchronization require internet access, which can be inconvenient when working in areas with poor connectivity.



Feature	To Do	TickTick	Monjez
Task Prioritization	X	<b>✓</b>	<b>✓</b>
Progress Tracking	X	X	<b>✓</b>
Themes	✓	<b>✓</b>	<b>✓</b>
Free to use	✓	X	✓
Shopping List	X	X	<b>✓</b>

Table 2 Competitor Analysis

#### What Makes Monjez Stand Out?

In the world of task management, **Monjez** is more than just an app—it's a complete productivity experience designed to make your workflow smoother and more efficient. With Progress Tracking, you can visually see your achievements as your complete tasks, with a dynamic progress bar that keeps you motivated until every task is done.

But the innovation doesn't stop there! **Monjez** redefines task organization by introducing the Shopping List feature, allowing you to manage both your daily tasks and shopping needs in one place—no need for multiple apps. This unique feature helps you stay organized and increases your efficiency effortlessly.

And because personalization matters, **Monjez** offers custom themes to match your style. The best part? Everything is completely free! If you're looking for an app that goes beyond basic task management and truly enhances your productivity and daily routine, **Monjez** is the perfect choice for you!



#### 3 Chapter3: Requirements Engineering

#### 3.1 Requirements Elicitation and Analysis

At this stage, the focus was on **understanding user needs and behaviours in managing daily tasks** to ensure that the **Monjez** application provides practical solutions that enhance productivity and simplify task organisation. **Interviews and questionnaires were used as primary tools for data collection and analysis**, allowing for an exploration of the challenges users face and the features they look for in task management applications. The responses from the interviews and questionnaires are provided in **Appendices A and B**, offering detailed insights into user feedback.

This process provided deeper insights into how users organize their daily tasks and what makes the experience more effective and sustainable. The collected data helped in identifying priorities and key functionalities that should be incorporated into the application to ensure a smooth and flexible user experience tailored to diverse user needs.

#### 3.1.1 Interviews

We conducted interviews with four target users to explore **their personal experiences and the challenges they face** in managing their daily tasks, as well as to understand **their needs and expectations** for the **Monjez** application. Each team member interviewed one user. Below is a summary of the interview participants:

Name	Nationality	Age	Gender	Experience	Interviewer
Rakan	Saudi	18	Male	Financial Analyst	Alhanouf
Nouf	Saudi	24	Female	Data Scientist	Njoud
Taraf	Saudi	21	Female	Information Technology	Nuran
Rawan	Saudi	23	Female	Architecture Engineer	Layal

Table 3 Interview table



#### Interview findings:

#### Findings of question "How do you organize and keep track of all your tasks daily?":

- Users generally prefer digital tools for task management, with a focus on simplicity and ease of
  use.
- There is a clear inclination towards maintaining a balance between organization and flexibility, as seen in the preference for color-coding and light task structures.
- Strategies vary significantly, from visual mental systems to structured digital lists, highlighting that individuals adapt their methods based on personal comfort and lifestyle needs.

Overall, the findings from question (1) suggest that effective task management can take many forms, and users benefit from personalized systems that align with their preferences and daily routines.

# Findings of question "What are some flaws in the current method you are using to track your tasks?":

- Users recognize their limitations, such as the tendency to overload themselves and forget tasks, indicating a need for better workload management.
- The requirement for engaging, visually appealing tools is evident, as motivation plays a crucial role in task completion.
- Manual tracking methods, while reliable for some, can lead to boredom and inefficiency, suggesting that users would benefit from more streamlined solutions.

Overall, the findings from question (2) suggest that while users have established methods for tracking tasks, there are significant areas for improvement that could enhance their effectiveness and user satisfaction.

# Findings of question "What makes sticking and completing your tasks daily easy and consistent?":

- Users recognize the value of routines and clear goals in enhancing task consistency, suggesting a need for strategies that minimize distractions.
- Reward-based motivation and engaging tools are crucial for maintaining user interest and commitment to task completion.
- Integrating tasks into established daily habits can simplify the process, making it feel less burdensome and more natural.



• The emotional reward of seeing completed tasks serves as a powerful motivator, emphasizing the importance of tracking progress visually.

Overall, the findings from question (3) suggest that a combination of structure, motivation, and emotional satisfaction plays a vital role in helping users consistently accomplish their daily tasks.

# Findings of question "What features do you wish to have when using a "to-do" platform, whether it's a must or for fun?":

- Users' needs vary widely, with some focusing on functional enhancements to improve productivity, while others prioritize personalization and enjoyment in their task management experience.
- The desire for integrated features suggests that users prefer platforms that can consolidate multiple functionalities, minimizing the need to switch between different apps.
- The emphasis on a user-friendly and ad-free environment indicates that usability and user experience are significant factors in retaining app engagement.

Overall, the findings from question (4) suggest that a combination of multiple features in one platform instead of multiple, add-free, and simple platforms are what makes the user dedicated to the platform.

# Findings of question "Do you care for a shopping list feature that lists all your goods and their quantities?":

- Users have different priorities regarding shopping lists, with some valuing practical organization while others focus on financial management.
- The desire for engaging and interactive features suggests that users appreciate elements that make shopping more enjoyable.
- There is a clear recognition of the benefits of having a structured shopping list to enhance budgeting and planning, indicating that many users would find such a feature valuable.

Overall, the findings from question (5) suggest that there is a significant interest in a shopping list feature. However, preferences vary significantly, with some users seeking practical organization and others leaning towards financial management or interactive experiences.



#### 3.1.2 Questionnaire

Fourteen participants responded to the questionnaire, providing insights into their task management habits, challenges, and preferences. The gender distribution is evenly split, with 50% male and 50% female.

In response to the question "What is your current status?", 57.1% of the participants are students, 21.4% are employees, and 21.4% fall into the "Other" category, indicating that students are the primary users.

In response to the question "How does the way you organize your tasks affect your daily productivity?", 64.3% find it highly effective, while 21.4% consider it somewhat helpful but still face difficulties, and 14.3% do not follow any specific method. Notably, none of the participants chose the option stating that "organization makes no difference but wish to improve."

In response to "What challenges do you face when managing your daily tasks?", 50% reported forgetting tasks due to a lack of effective reminders, 42.9% struggle with prioritizing tasks and finding a suitable task management tool, and 35.7% face difficulty tracking task progress.

Regarding preferred features, 35.7% of respondents value the ability to add tasks quickly and easily, while the same percentage prioritize the option to highlight important tasks. Additionally, 14.3% prefer product categorization by type (e.g., vegetables, household items), and another 14.3% are interested in location-based reminders.

In response to "Are you willing to pay if the website offers additional useful features?", 35.7% would pay if the features are valuable, the same percentage prefer a free website, and 28.6% are open to paying depending on the price and features.

In response to the open-ended question "What features would you like in **Monjez**?", based on 12 responses, the most requested features for **Monjez** include a gamification and rewards system, task sharing, motivational messages and reminders, and a daily journal or memory log. Users also desire AI-based task prioritization, calendar integration, and homework management.



#### Summary of Findings:

The findings from the interviews and questionnaire reveal a comprehensive landscape of task management habits, challenges, and preferences among the participants, primarily composed of students. With an even gender distribution, the responses indicate that a significant majority (64.3%) find their current methods of organizing tasks to be highly effective, while a notable portion (50%) struggles with forgetting tasks due to insufficient reminders. This highlights a clear need for better tools to aid in prioritization and tracking progress, as 42.9% of respondents express difficulties in these areas. Preferences for task management features are diverse, with 35.7% valuing quick task addition and highlighting important items, while others are interested in financial management tools rather than traditional shopping lists. Many participants desire engaging and interactive experiences, with requests for gamification, rewards systems, and motivational reminders. This indicates that users are not only looking for practical functionality but also for elements that make task management enjoyable. Additionally, the desire for comprehensive features like AI-based prioritization and integration with calendars suggests that users are seeking platforms that consolidate various aspects of productivity. Overall, the insights reveal that while participants have established methods for managing their tasks, there is a significant opportunity for improvement through enhanced usability, engagement, and the integration of diverse functionalities that cater to their unique needs and preferences.

#### 3.2 System Users

User Characteristics for Monjez Website:

#### Age

There is no limitation to our website in terms of age, however we do target the Age Range 18 to 45 years old, because they are the most likely the ones who need our website the most.

Young Adults (18-25): Likely to be students or early career professionals, managing schoolwork and social activities.

Adults (26-35): Often in mid-level careers, balancing work, family responsibilities, and personal tasks.

Middle-Aged Users (36-45): More likely to have established careers and families, managing complex schedules involving work, children, and household tasks.

So, our website services all ages with no limitations or exceptions.



#### • Gender

Users are of both genders, Female and Male.

#### Nationality

**Monjez** is designed for a global audience, but initial targeting may focus on locals, and users who can speak and understand English to a certain point.

#### Educational Level

**Monjez** is designed with simplicity and accessibility in mind, making it usable for individuals with any level of education. The intuitive user interface allows users to easily navigate through the platform without requiring advanced technical skills or extensive training. Whether someone is a student, a professional, or someone managing household tasks, they can quickly grasp how to add, edit, and prioritize tasks or items on their shopping list. This inclusive design ensures that anyone, regardless of their educational background, can effectively utilize **Monjez** to organize their daily activities and shopping needs with confidence.

So, users need no certain level of education, and everyone is able to utilize our website easily.

#### • Experience in a Specific Domain

In general, most users will have general experience in task management, either through traditional methods (e.g., paper lists) or other digital solutions (e.g., mobile apps).

Moreover, this means that users do not need to be experienced in a specific domain to be able to use such a simple and straightforward website, and anyone with experience or not can use it, however it would be better to have basic familiarity with similar applications our websites, to enhance the experience.

#### Technical Expertise

Users should have minimal technical knowledge to navigate and utilize the features effectively.

#### **Conclusion**

The user base for **Monjez** is diverse, encompassing a range of ages, educational backgrounds, and technical expertise levels, as there aren't any specific criteria to who can use it or not, as long as they can understand English



# 3.3 Use Case Diagram

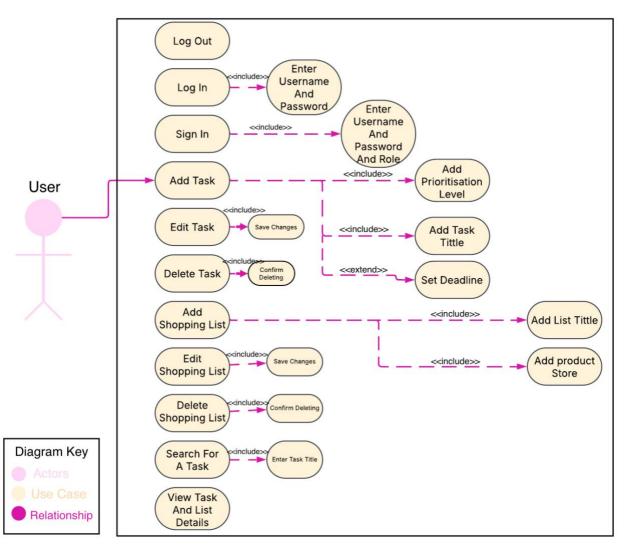


Figure 2 Use Case Diagram



# 3.4 product backlog

In this section, we will outline the key features of the **Monjez** application and the organization of its product backlog. The backlog consists of Product Backlog Items (PBIs), typically displayed in a table with columns for the item, its size, type, and acceptance criteria. These items are prioritized from the most to the least important.

Additionally, the product backlog will be managed in Jira to ensure efficient tracking.

	Size	Туре	Acceptance Criteria
	(Story	(Feature,	The conditions of satisfaction that must be
PBI (User Story)	points)	defect,	met for that item to be accepted.
		technical	
		work,	
		knowledge	
		acquisition)	
As a new user, I want			1. If I go to the sign-up page and enter my
to be able to <b>sign up</b>	3	Feature	username, a password that contains at least
so that I can create an			8 characters, and a phone number, then
account and use the			click on the "Sign Up" button, I should be
system's features.			able to create an account successfully and
			access the application.
			2. If I enter an email address or phone
			number that is already registered and click
			on "Sign Up," the system should display a
			notification informing me that the email or
			phone number is already in use, prompting
			me to enter a different one.
			3. If I leave any required fields blank (e.g.,
			username, password, phone number), the
			system should display a notification stating
			that all fields are mandatory and prevent
			me from proceeding until all required
			fields are filled.



As a registered user, I			1. If I enter a valid email and password and
want to securely log	3	Feature	click on the "Log In" button, the system
in using my email			should authenticate my credentials and
and password so that			redirect me to the main dashboard,
I can access my			ensuring a smooth login experience.
personalized tasks			2. If I enter an incorrect email or password,
and manage them			the system should display a clear
seamlessly across all			notification indicating that my credentials
my devices.			are incorrect, while providing an option to
			reset my password.
			3. If I leave the email or password field
			empty and attempt to log in, the system
			should prompt me with a notification
			stating that all fields are required, ensuring
			that I provide the necessary information
			before proceeding.
As a user, I want to			1. When I enter my task and click "Add,"
quickly add a task so	3	Feature	the system should successfully save the
that I can stay			task and display it in my task list.
organized and			2. If I select a priority (High, Medium,
efficiently manage			Low) for the task, the system should
my responsibilities.			automatically organize the tasks based on
			the priority.
			3. If I set a due date, the system should
			save the deadline and display it alongside
			the task.
As a user, I want to			1- If I navigate to the shopping list, I
add items with	8	Feature	should see the "Add Item" button. If I
specific quantities to			click on it, I should be prompted to enter
my shopping list and			the item's name, specify the quantity, and
organize them into			select a category. After clicking the save



categories so that I			button, the item should be added to my
			shopping list.
can manage my			snopping fist.
shopping more			2- When I view an item in my shopping
efficiently.			list, I should see a "Delete" button (trash
			icon) next to each item. When I click on
			, in the second
			the "Delete" button for an item, a
			confirmation message should appear,
			allowing me to either confirm or cancel the
			deletion.
			3- When I view the shopping list, I should
			be able to edit the quantity of an existing
			item. A save confirmation button should
			appear, and upon clicking it, the shopping
			list should immediately reflect the updated
			information.
As a user, I want to			1. When I navigate to the task page, all my
view my tasks in a	3	Feature	tasks should be displayed in an easy-to-
clear and structured			read list.
way so that I can			2. The tasks should be sorted by priority,
easily see all my			showing the most important tasks first,
completed and			followed by those with medium and low
uncompleted tasks.			priority.
			3. Each task should display its title, due
			date, and status (completed or incomplete).
As a user, I want to			
mark tasks as	2	Feature	1. The user should be able to check a
completed by			checkbox next to each task to mark it as
checking a checkbox,			completed.
			_



progress efficiently.    Task should be visually marked as completed (e.g., a checkmark appears).   3. If the user marks a task by mistake, they should be able to uncheck the checkbox to revert the task back to its previous state.    As a user, I want to edit my task details (such as task content, due date, and priority) so that I can update my plans as needed.    As a user, I want to delete a task so that I can remove tasks I no longer need or have canceled.    As a user, I want to delete a task so that I can remove tasks I no longer need or have canceled.    As a user, I want to details of the task page, I should see an option to cancel the task.	so I can track my			2. Once the checkbox is checked, the
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Analysis 11.4			0.337
tasks in my list			2. When I type a keyword, the system
without scrolling.			should filter and display only the tasks that
			contain that keyword.
			3. If no tasks match the keyword, the
			system should notify me with a message
			saying no results were found.
As an active user, I			1. If I click on the "Log Out" button, the
want to <b>log out</b>	2	Feature	system should immediately terminate my
securely so that I can			session and redirect me to the login screen,
ensure my account			confirming that I have successfully logged
remains private and			out.
protected when I'm			
not using the			
application.			
As a User I want to			1- If I navigate to the home page, I should
see visual indicators	3	Feature	see a visual indicator (progress bar) that
or charts that display			displays my task completion rate.
my task completion			
rate so that I can stay			
motivated by seeing			
my achievements.			
-			
As a user, I want to			1- If I navigate to the customization
customize the	5	Feature	settings page, I should see a list of
website theme so that			available themes options.
I can personalize my			2- If I select a theme and click on the
experience according			"Apply" button, the website appearance
to my preferences			should update immediately to reflect my
			selection.
As a user, I want the			The system should have an intuitive user
system to be <b>easy</b> to	5		interface with clear instructions and



use so that I can		Feature	buttons so that users can navigate it
quickly understand			effortlessly.
how to interact with			
the <b>website</b> without			
any difficulties.			
Without any delays.			
As a user, I want the			The system should be available for use
system to be	3	Feature	99% of the time, ensuring that users can
available most of the			access it without unexpected downtime.
time so I can rely on			
it whenever I need it.			

Table 4 Product Backlog

# 4 Appendix

# 4.1 Appendix A: Interviews

# **4.1.1 Interview Questions:**

- 1. How do you organize and keep track of all your tasks daily?
- 2. What are some flaws in the current method you are using to track your tasks?
- 3. What makes sticking and completing your tasks daily easy and consistent?
- 4. What features do you wish to have when using a "to-do" platform, whether it's a must or for fun?
- 5. Do you care for a shopping list feature that lists all your goods and their quantities?



# **4.1.2 Interview Transcripts:**

Interview outline (1)	
Interviewee: Rakan	Interviewer: Alhanouf
Location / Medium: zoom meeting	Appointment Date: 8 Feb 2025
	Start Time: 2:40
	End Time: 3:05
Objectives: To understand approach to task	Reminders:
management, explore the features he	1. Allocate time per question.
desires in a task management application,	2. Ensure clarity in responses.
and identify areas for improvement in his	3. Note observations post-answers.
task tracking method.	
Agenda:	Approximate Time:
Introduction	1 min
Background in project	2 min
Overview of interview	1 min
Topics to be covered	30 sec
Permission to be record	30 sec
Question 1	1 min
Question 2	2 min
Question 3	3 min
Question 4	1 min
Question 5	2 min
Summary of major points	1 min
Questions from interviewee	2 min
Closing	1 min

### General Observations:

· Rakan prefers a blend of manual and digital tools to stay organized.



• He values features like reminders, task price	pritization, and progress tracking to improve his task
management process.	
Uncovered Topics: Due to time constrain	its, the discussion on advanced features for task
management was not fully explored.	
Interviewee: Rakan	Date: 8 Feb 2025
Questions:	Answer and Observations:
Q1: How do you organize and keep track of all your tasks daily?	Answer: I use a detailed to-do list and prioritize tasks based on urgency and importance. I rely on tools like Notion and Google Calendar to track my tasks and set reminders. I also break down larger tasks into smaller, manageable steps to stay on track.
	Observations: the user seems to be well-organized and prefers using digital tools for task management.
Q2: What are some flaws in the current method you are using to track your tasks?	Answer: Sometimes, I struggle with overloading myself. I tend to add too many tasks to the list, which becomes overwhelming and hard to manage. Also, I occasionally forget to review the list at the end of the day to assess progress.
	<b>Observations</b> : The user may be overestimating their ability to handle multiple tasks at once. They would benefit from a system that helps manage workload more effectively.
Q3: What makes sticking and completing your tasks daily easy and consistent?	Answer: Having a set routine makes a huge difference. When I stick to a daily schedule, with realistic and clear goals, it becomes easier to follow through. I also find accountability helpful, whether



	it's through reminders or sharing progress with
	others.
	<b>Observations</b> : Routine and clear goals seem to be
	effective for this user, but they may need additional
	support for managing daily distractions.
Q4: What features do you wish to have	Answer: I prefer features that allow task
when using a "to-do" platform, whether it's	prioritization, deadlines, and reminders.
a must or for fun?	Integration with my calendar and email would be
	useful, and I'd like to be able to track my progress
	with statistics or a productivity graph.
	<b>Observations</b> : User's needs lean towards practical
	features that enhance productivity, with a focus on
	progress tracking and integrations with other tools.
Q5: Do you care for a shopping list feature	Answer: Yes, I think it's very practical. I like
that lists all your goods and their quantities?	being able to keep track of what I need to buy in an
	organized way. It helps me plan better and stick to
	the items I really need, avoiding unnecessary
	purchases.
	<b>Observations</b> : The user values practicality and
	organization, which could be enhanced by adding
	a shopping list feature in the app.
	11 6

Table 5 Interview's Transcription for first Interviewee



Interview outline (2)	
Interviewee: Nouf	Interviewer: Njoud
Location / Medium: in home	Appointment Date: 14 Feb 2025
	Start Time: 6:40
	End Time: 7:05
Objectives: To understand approach to task	Reminders:
management, explore the features he	1. Allocate time per question.
desires in a task management application,	2. Ensure clarity in responses.
and identify areas for improvement in his	3. Note observations post-answers.
task tracking method.	
Agenda:	Approximate Time:
Introduction	1 min
Background in project	2 min
Overview of interview	1 min
Topics to be covered	30 sec
Permission to be record	30 sec
Question 1	1 min
Question 2	2 min
Question 3	3 min
Question 4	1 min
Question 5	2 min
Summary of major points	1 min
Questions from interviewee	2 min
Closing	1 min
General Observations:	



Nouf enjoys visually appealing, interactive, and gamified features to make task management more engaging. She values personalization and reward-based systems to stay motivated. Uncovered Topics: Due to time limitations, we didn't cover how the app could be optimized for better usability and a smoother user interface experience. Interviewee: Nouf Date: 14 Feb 2025 **Questions:** Answer and Notes: Q1: How do you organize and keep track of **Answer**: I like to keep things light! I use fun apps all your tasks daily? with color-coded tasks and try not to be too strict. I prefer simple lists and reminders that keep me on my toes but also don't overwhelm me with too much structure. **Observations**: Prefers a fun and light approach to task management with a mix of color coding and simple lists. Q2: What are some flaws in the current Answer: I tend to forget to check things off, method you are using to track your tasks? especially when I get distracted. And sometimes, if I'm using an app that isn't fun or engaging enough, I lose interest in checking off tasks. So, I need something that's visually fun to keep me excited." **Observations**: Needs more engaging and visually appealing apps to help her stay motivated and check off tasks consistently. Answer: I think rewards help! If I complete tasks, Q3: What makes sticking and completing your tasks daily easy and consistent? I'll treat myself with a little fun activity, like watching a short show or getting a snack. It keeps me motivated without feeling like it's all about work. Plus, a fun app with interactive features keeps me going.



	<b>Observations</b> : Reward-based motivation and
	interactive features are key to maintaining
	,
	consistency.
Q4: What features do you wish to have	<b>Answer</b> : I'd love something that adds a bit of
when using a "to-do" platform, whether it's	personality! Maybe different themes or
a must or for fun?	background music that changes as I complete tasks.
	And fun progress bars or animations when I check
	things off would make it way more exciting.
	Observations: Prefers personalized and fun
	features, such as music and themes, to enhance the
	user experience.
Q5: Do you care for a shopping list feature	Answer: I mean, it sounds fun if the list is super
that lists all your goods and their quantities?	cute and interactive! It could be like a game where
	I 'collect' the items as I buy them. I think it would
	make shopping feel less like a chore and more like
	a challenge.
	<b>Observations</b> : Sees value in a fun and interactive
	shopping list feature that makes the experience
	more engaging.

Table 6 Interview's Transcription for Second Interviewee



Interview outline (3)	
Interviewee: Taraf	Interviewer: Nuran
Location / Medium: in university	Appointment Date: 12 Feb 2025
	Start Time: 1:10
	End Time: 1:35
Objectives: To understand approach to task	Reminders:
management, explore the features he	1. Allocate time per question.
desires in a task management application,	2. Ensure clarity in responses.
and identify areas for improvement in his	3. Note observations post-answers.
task tracking method.	
Agenda:	Approximate Time:
Introduction	1 min
Background in project	2 min
Overview of interview	1 min
Topics to be covered	30 sec
Permission to be record	30 sec
Question 1	1 min
Question 2	2 min
Question 3	3 min
Question 4	1 min
Question 5	2 min
Summary of major points	1 min
Questions from interviewee	2 min
Closing	1 min

# General Observations:

 $\cdot$  Taraf was late for the interview because he forgot the appointment, which confirms his heavy reliance on memory instead of using reminder tools.



Uncovered Topics: It was not discussed how he handles unexpected or urgent tasks and whether he has a specific system for rearranging his priorities when needed.	
Interviewee: Taraf	Date: 12 Feb 2025
Questions:	Answer and Observations:
Q1: How do you organize and keep track of	Answer: I rely on my memory and use a mental
all your tasks daily?	prioritization system. Every morning, I take a few
	moments to visualize my key tasks and categorize
	them by importance and complexity.
	<b>Observations</b> : She seems to rely heavily on her
	memory, which may lead to forgetting so.
Q2: What are some flaws in the current	Answer: Sometimes, I overestimate my ability to
method you are using to track your tasks?	remember everything, which leads to forgetting
	some tasks. Also, not writing tasks down makes me
	less accurate in estimating the time required for
	them, causing last-minute stress.
	Observations: She struggles with remembering all
	tasks and might need a written or digital tracking
	system.
Q3: What makes sticking and completing	Angway Having a clear atmenture for the day halos
your tasks daily easy and consistent?	Answer: Having a clear structure for the day helps me stay on track. I divide my time into morning,
your tasks daily easy and consistent:	afternoon, and evening, assigning tasks
	accordingly. I also use association techniques, like
	completing tasks alongside daily habits.
	completing tasks alongside daily naolis.
	Observations: She integrates tasks into daily
	habits, which might make it easier for her to
	complete them naturally.



Q4: What features do you wish to have	Answer: I would like a feature that combines task
when using a "to-do" platform, whether it's	tracking with journaling, allowing me to document
a must or for fun?	my day along with a date for each entry. It would
	be useful to review past days and link tasks to
	significant events.
	Observations: She is looking for a more
	comprehensive platform that combines
	productivity with personal reflection.
Q5: Do you care for a shopping list feature	Answer
that lists all your goods and their quantities?	: Not really, but I would prefer a feature that helps
	me with financial planning in a simple way, such
	as automatically tracking my daily expenses and
	categorizing them into sections like "Daily Needs,"
	"Entertainment," and "Savings."
	Observations: She seems more interested in
	financial management rather than managing a
	shopping list.

Table 7 Interview's Transcription for Third Interviewee



Interview outline (4)	
Interviewee: Rawan	Interviewer: Layal
Location / Modium, in university	Appointment Date: 17 Ech 2025
Location / Medium: in university	Appointment Date: 17 Feb 2025
	Start Time: 2:07
	End Time: 2:39
Objectives: To understand approach to task	Reminders:
management, explore the features he	1. Allocate time per question.
desires in a task management application,	2. Ensure clarity in responses.
and identify areas for improvement in his	3. Note observations post-answers.
task tracking method.	
Agenda:	Approximate Time:
Introduction	1 min
Background in project	2 min
Overview of interview	1 min
Topics to be covered	30 sec
Permission to be record	30 sec
Question 1	1 min
Question 2	2 min
Question 3	3 min
Question 4	1 min
Question 5	2 min
Summary of major points	1 min
Questions from interviewee	2 min
Closing	1 min

# General Observations:

 $\cdot$  Rawan always has this habit of writing every single thing she does wether it's a task or not in her notes, I know this because of my observations on her when hanging out, and that is why I



chose her actually, she seemed like the perfect person to interview about to-do and notes questions. Uncovered Topics: It was not discussed how she likes or prefers her rewards to be in return for achieving and completing the tasks. Date: 17 Feb 2025 Interviewee: Rawan **Ouestions:** Answer and Observations: Q1: How do you organize and keep track of **Answer**: I use the notes app in my phone because all your tasks daily? my phone is always with me, and I make a list of all the months, and each month I make a list of the days in it, and write the tasks of each day, also I write the tasks that will be completed monthly, not only daily. **Observations**: She seems to have a certain pattern she follows to keep track of her tasks. Q2: What are some flaws in the current Answer: Most of the time I get bored of having to method you are using to track your tasks? write each month's name and every day, it would definitely be easier if I had a template prewritten, and I just write the tasks. **Observations**: She seems very faithful to her note's app, despite having to write everything manually, which means the advantages of this method overlap the disadvantage of having to write everything by herself. Q3: What makes sticking and completing Answer: The feeling of achievement I get when I

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sense of relief.

look at my note's app at the end of the day and see

all my tasks checked and completed, it gives me a

your tasks daily easy and consistent?



<b>Observations</b> : She lives off the feeling of
achieving and completing all the needed work in
her day, so her biggest reward is seeing how
disciplined she is.
<b>Answer</b> : I would like to have my tasks organized
and simple that's the most important thing, also I
would like a cycle tracker in my to-do app instead
of having multiple apps, and also no adds, as it is
what makes me quit using apps most of the time,
they annoy me too much.
<b>Observations</b> : She is looking for a platform that
combines multiple features, as she hates going
around multiple apps just to have a certain feature.
Answer: Yes, I really need a feature like this
actually, because if I write the stuff, I have to get I
will be limited to them, and not lose control and
buy anything I see, it helps me save up and control
my money when I have certain things, I know I
have to buy.
<b>Observations</b> : She seems interested in this feature,
and committed, not some talk as she also showed
me her list of groceries in her notes app.

Table 8 Interview's Transcription for Forth Interviewee



4.2 Appendix B:
4.2.1 Questionnaire Questions:
1. What is your gender?
• Male
• Female
2. What is your status?
• Student
• Employee
• Other
3. How does the way you organize your tasks affect your daily productivity?
• It helps me complete tasks efficiently and without delays.
• Sometimes it's helpful, but I still struggle with some disorganization.
• I don't notice a big difference, but I would like to improve my approach.
• I don't use any specific method to organize my tasks.
4. What challenges do you face when managing your daily tasks? (You can select multiple answers)
• Difficulty prioritizing tasks.
• Forgetting tasks due to lack of effective reminders.
Difficulty tracking task progress.
• Lack of a suitable task management app or tool.



- 5. If the website includes a shopping list management feature, what features would you like it to have?
- Ability to add items quickly and easily.
- Categorizing products by type (e.g., vegetables, household items, etc.).
- Prioritization of important items.
- Location-based reminders (such as a notification when entering a specific store).
- 6. Are you willing to pay if the website offers additional useful features?
- Yes, if the features are worth the cost.
- No, I prefer using a free website.
- Maybe, depending on the price and offered features.
- 7. What features would you like in **Monjez**?

(Open-ended question for user input).



# 4.2.2 Questionnaire Answers:

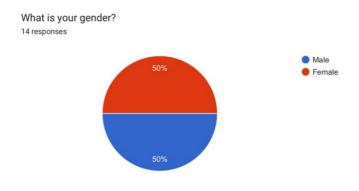


Figure 3 Q1 Graph

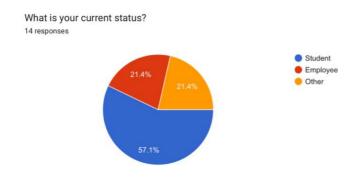


Figure 5 Q2 Graph



What challenges do you face when managing your daily tasks? (You can select multiple answers) 14 responses

Figure 4 Q3 Graph



How does the way you organize your tasks affect your daily productivity? 14 responses

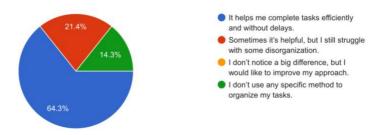


Figure 6 Q4 Graph

If the website includes a shopping list management feature, what features would you like it to have?

14 responses



Figure 7 Q5 Graph



Are you willing to pay if the website offers additional useful features? 14 responses

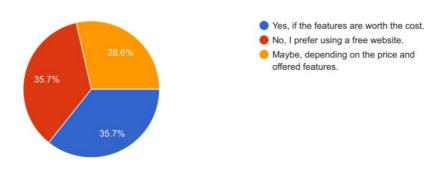


Figure 8 Q6 Graph

#### What features would you like in Monjez?

12 responses

Gamification and Rewards System Introduce points, badges, or streaks to motivate users to complete their tasks.

Allow user to share task lists

Encouraging messages upon completing any task and reminders of the number of remaining tasks.

Daily Journal or Memory Log A feature where users can write down daily reflections, memories, or important thoughts

I want there to be a place for journaling memories because I love writing down the details of my day and being able to revisit and access them after a long time.

Smart task prioritization using AI to analyze deadlines

Integration with calendar to remind me if I have important task or appointments

Due my homeworks

An easy and simple app; I want to reduce the time I spend managing my day

Ease of handling

Figure 9 Q7 Graph



#### 4.3 Jira:

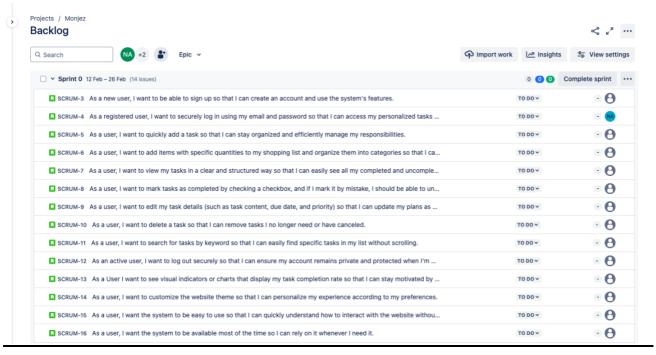


Figure 10 product Backlog in Jira



#### 5 References (IEEE):

- [1] Grammarly, "Grammarly Plans," [Online]. Available: <a href="https://www.grammarly.com/plans">https://www.grammarly.com/plans</a>. [Accessed: 03-Feb-2025].
- [2] Design.com, "Logo Maker," [Online]. Available: <a href="https://www.design.com/s/logo-maker">https://www.design.com/s/logo-maker</a>. [Accessed: 01-Feb-2025].
- [3] Canva, "Canva Free Online Design Tools," [Online]. Available: <a href="https://www.canva.com/">https://www.canva.com/</a> [Accessed: 06-Feb-2025].
- [4] TickTick. (n.d.). TickTick: To-do list, checklist and task manager app. Retrieved from <a href="https://www.ticktick.com">https://www.ticktick.com</a>
- [5] Microsoft Corporation. (n.d.). Microsoft To Do: List, task & reminder. Retrieved from https://todo.microsoft.com
- [6] Atlassian. (n.d.). Jira Software: Issue & project tracking for software teams. Retrieved from <a href="https://www.atlassian.com/software/jira">https://www.atlassian.com/software/jira</a>
- [7] Google LLC. (n.d.). Google Forms: Free online surveys for personal use. Retrieved from <a href="https://forms.google.com">https://forms.google.com</a>
- [8] Lucid Software Inc. (n.d.). Lucidchart: Intelligent diagramming application. Retrieved from <a href="https://www.lucidchart.com">https://www.lucidchart.com</a>