Assignment 1, Group 14

Ásgerður Júlía Gunnarsdóttir, kt. 300103 3750
Freydís Xuan Li Hansdóttir, kt. 110902 4090
Hermann Ingi Hermannsson, kt. 040403 2990
Vilborg Erlendsdóttir, kt. 141103 2960

Vision and scope document

1.5 Vision statement

For individuals who want to improve their productivity
who need an effective tool to manage tasks, notes, and to-do lists,
the Personal Organizer
is a digital task manager and note organizer
that enables users to quickly capture notes, create checklists, and track projects efficiently, all in one platform. It categorizes tasks, allows easy searching, and provides a seamless experience for managing personal productivity.
Unlike other applications with limited categorization options and complex interfaces,
Our product offers a simple, intuitive interface with enhanced organizational features such as categorization by priority, due date and custom tags, making task management straightforward and highly personalized.

1.4 Success metrics

Within the first year of release, we aim to acquire a loyal user base, with a retention rate of 50% or higher. Our goal is to provide a seamless user experience with minimal disruptions. We strive for a high number of daily active users who actively complete tasks, showing that they are engaging with the platform as intended.

2.2 Scope of initial release

Key features to be rolled out during initial release:

1. Task Management System: Basic task creation, editing and deletion functionality. Ability to organize tasks into categories (e.g. work, personal) and set priorities. Due date assignment and visual indicators for deadlines.
2. Searching and filtering: Search function to locate specific tasks, notes or checklists. Filtering options by due date, priority, tags or categories.
3. Create account: Easy account creation process with email and password registration. Basic account management options e.g. abilities to reset passwords and update profile information.

Quality attributes:

- Performance: Fast response times with minimal lag during task creation, editing and navigation.
- Reliability: High availability with minimal downtime to assure consistent access to the platform.
- Usability: An easy to navigate interface that allows users to get started quickly without a steep learning curve.

Use case document

Core features - Fully dressed format

1.
1 - **Use case name**: Create new task
4 - **Primary actor**: User
6 - **Preconditions**:
- The user is logged in
- The user in on the task management page (not in a note)

7 - **Success guarantee**
- The new task is saved in the correct category.
- The task appears in the users tasklist
- The task is displayed with all correct details

8 - **Main success scenario**
1. The user navigates to the task management page.
1. The user creates a new task by clicking the “New Task” button.
2. The system presents a form for the user to fill out. The form includes fields such as taskname, task category, due date, priority, and additional notes. Some field are required while others are optional
3. The user enters the required task details into the form. If they choose, they can fill out the optional ones.
4. The user clicks the "Save" button to submit the task.
5. The system checks if all required field are filled out, and validates the inputs
6. The system saves the task to the database
7. The correct tasklist on the dashboard is updated to include the new task
8. The system confirms that the creation of a new task is successful with a visual indicator

9 - . **Extensions / alternate scenarios**
a. Task is cancelled: If user clicks “cancel” the system discards all data from the task, and returns to the dashboard without adding new task
b. Invalid data: If the user submits invalid data, the system will prompt the user to correct their information by displaying an error message.
c. Server error: If a server error occurs during the creation of a task, an error message will display, and the task will not be saved.

13 - **Miscellaneous / open issues** ▪ What open issues are there?
- How should the system handle duplicate tasks or categories with the same name?
- Can tasks be deleted?
- Can users see their finished tasks on their dashboard or do they disappear?

2.

1 - **Use case name**: Create an account

4 - **Primary actor**: User

6 - **Preconditions**:

- The user must have access to the application via a supported device.
- The user has a valid email address.
- The user must not have an existing account associated with the email address.

7 - **Success guarantee**

- The user has gained an account using an email address and a password.
- The user can login and use their account.

8 - **Main success scenario**

1. The user navigates to the “Create account” page within the application.
2. The user enters a valid email address, creates a unique username and a password that meets the system’s security requirements.
3. The user agrees to terms and conditions.
4. The system validates provided email address, username and password for correctness and uniqueness.
5. The system creates the account, associated with provided email and stores encrypted password.
6. The system displays a confirmation that the account has been successfully created.
7. The user can now log in using their new credentials.

9 - . **Extensions / alternate scenarios**

a. Invalid email address: If the user enters an email address that does not meet validation rules (e.g. missing domain), the system displays an error message prompting the user to enter a valid email.
b. Duplicate account: If the email address is already associated with an existing account, the system informs the user and suggests recovering the password.
c. Error during account creation: If a technical error occurs during the account creation process, the system displays an error message and suggests retrying or contacting support.

13 - **Miscellaneous / open issues**

- Can accounts be permanently deleted?
- How is user data stored, are there options for data export or portability?
- Can users with different email addresses have the same username?

3.

1 - **Use case name**: Filter tasks

4 - **Primary actor**: User

6 - **Preconditions:**

- The user must be logged into the system.
- The user must have existing tasks in the system.

7 - **Success guarantee**

- The user is able to view tasks that meet the selected filter criteria.

8 - **Main success scenari**o

1. The user navigates to the “Tasks” section of the application
2. The user selects one or more filters or creates custom filters by defining criteria (e.g. by category, date, priority or tags) relevant to their needs
3. The user clicks the “apply filters” button, and waits.
4. The system applies the filter and displays a list of tasks that match the criteria
5. The user reviews the filtered tasks that are relevant to their search criteria
6. The user repeats steps 2-5 as needed until they find the desired information.

9 - . **Extensions / alternate scenarios**

a. No matching tasks: If no tasks match the filter then the system displays an error message like “No tasks match your filters”.
b. Removing a filter: The user removes a filter and the system updates the tasks that match the filters.
c. Adding additional filter: The user selects an additional filter and the system updates the tasks matching the filters.
d. Invalid filter combination: If applied filter combinations do not make sense (e.g. conflicting date range), the system prompts the user to adjust the filters.

13 - **Miscellaneous / open issues**

- Can the system save user-defined filter settings for future use?
- Is there a limit to the number of filters a user can apply simultaneously?
- Should the system provide predefined filter sets for common scenarios?
- Does the filter show tasks that match exactly, or that match partly?

Use cases brief format

1. **Track task progress:**
   A user works on a task and updates its status from "Not Started" to "In Progress." The system reflects the change, adjusting the visual indicators on the task list. Upon completion, the user marks the task as "Completed" and the system updates the dashboard to show the task as finished.
2. **Pomodoro clock:**
   The user starts a timer for a predefined focus session. The application begins the countdown and shows the remaining time on the screen. When the time is up, the app notifies the user and prompts them to take a short break before the next focus session begins. The timer resets automatically for the next cycle.
3. **Set reminders:**
   A user selects a task and sets a reminder with a specific date and time. The system schedules a notification and alerts the user when the reminder time approaches. The notification pops up on the user's device. The user closes the pop-up after reception.
4. **Archive completed tasks:**
   A user reviews their completed tasks and decides to archive them. The system moves the task for an archive section, which removes them from the main task list. The archived tasks are stored for future reference but do not clutter the active task space.
5. **Add notes to tasks:**
   A user clicks on a task to expand it and adds additional notes or sub-tasks. The system saves the notes attaching them to the task. When the task is reopened the user can view, edit or update the notes as needed.
6. **Create weekly planner:**
   A user opens the weekly planner view and drags tasks into specific days of the week. The system updates the planner to reflect assigned tasks for each day. The user reviews their week and the planner displays an organized view of all scheduled activities.
7. **Delete task:**
   A user selects a task from their list that is no longer needed and chooses the delete option. The system confirms the action to prevent accidental deletions. Once confirmed the task is then permanently removed from the task list. The system updates the user's dashboard reflecting the changes.
8. **User management:**
   Authorised admin can access stored user data. Admins can view detailed user profiles and see a statistical overview of the platform, such as user engagement, account status and activity history.

Project plan

Assignment	Total	Minimum # easy end-points	Minimum # medium end-points	Minimum # hard end-points
Assignment 2	2	2	0	0
Assignment 3	20	4	3	1
Assignment 4	20	4	2	2
Assignment 5	10	4	1	0

Phase 1

Use case	End Point (2)	Difficulty points	GPPPD
Create account	Verify log-in	1	POST
Create account	Update username	1	PATCH

Phase 2

Use case	End Point (20)	Difficulty points	GPPPD
Create task	Add new task	1	POST
Create task	Create new category	1	POST
Create task	Edit note	1	PATCH
Create task	Create tag	1	POST
Create task	Set due date	1	POST
Task Management	Fetch all tasks	1	GET
Task management	Delete task	2	DELETE
Create account	Create new user	2	POST
Task management	Archive task	2	DELETE
Create task	Add task to category	2	POST
Create task	Add note to task	2	POST
Task management	Add task to favorites	2	POST
Filter task	Filter by category	3	GET

Phase 3

Use case	End Point (20)	Difficulty points	GPPPD
Task management	Update priority	1	PATCH
Track progress	Update progress	1	PATCH
Filter task	Change filters	1	PATCH
Set reminder	Update reminder	1	PATCH
Create task	Update due date	1	PATCH
Task management	Weekly planner	2	GET
Task management	Unarchive task	2	GET
Set reminder	Set new reminder	2	POST
Create account	Add profile pic	3	POST
Filter task	Filter by date	3	GET
Filter task	Filter by priority	3	GET

Phase 4

Use case	End Point (10)	Difficulty points	GPPPD
Create account	Change password	1	PATCH
Create account	Change email	1	PATCH
Create task	Colors on categories	1	POST
User management	Get all users	1	GET
Pomodoro clock	Pomodoro clock	2	POST
Create account	Delete account	2	DELETE
Create account	Replace profile pic	3	PUT

Project skeleton

Code repository: https://github.com/hemmih/HugboVerkefni1