

HÁSKÓLI ÍSLANDS

HUGBÚNAÐARVERKEFNI II

Sigurður Gauti Samúelsson

Ólafur Einar Ómarsson

Requirements & Project Plan

Team 13

Andri Dagur Ófeigsson (ado15 - 3101992579)

Birna Ósk Helgadóttir (boh21 - 2305992389) Presents

Bóas Guðjónsson (bog26 - 0703922839)

Safa Jemai (saj55 - 0310944029)

1. Vision and Scope Document Template

1. Business requirements

a. Background

- i. The MID is inspired by the need for an easy way to keep track of and organize one's tasks and habits online. Many people use journals or the notes app but the MID provides a fun, accessible way to gather all of one's to-do's with only a few clicks and minimal effort. In a fast new world where the technology rules, upgrading the preexisting MID website to a mobile app opens opportunities of using MID wherever, whenever.

b. Business opportunity

- i. So many struggle with planning and procrastination and need the motivation of an easy, fun tool to help them get started. Our planner can be used for both short and or easy tasks and hard, time consuming tasks. MID will help you prioritize in a fun way because who does not love the feeling of checking the box (or Marking It Done) when the job is done? The app is suitable for personal use, projects for companies or even schools. Why not have all tasks organized in the same place and accessible on your electronic mobile device, with quick and easy access, anytime, anywhere.

c. Business objectives

- i. Measurable, realistic goals that the product/solution is expected to help achieve.

d. Success metrics

- i. Measurable, quantifiable criteria that indicate whether the project was worth undertaking

e. Vision statement

- i. **1.5 Vision statement ("What will the product accomplish for whom?") Example:**
 1. For people
 2. who need help prioritizing tasks,
 3. the MID
 4. is an planning app
 5. that will provide an easy user friendly place to keep track of and prioritize big and small tasks on your phone.
 - a. The app will provide an overview of upcoming and previous tasks, Kanban style of showing the status of tasks and will help prioritize tasks by duration and deadline info.
 6. Unlike the notes app or complicated softwares like MS project

- f. Business risks
 - g. Business assumptions and dependencies
 2. Scope and limitations
 - a. Major features
 - b. **Scope of initial release**
 - i. **Login**
 1. Users can login to their own account on their mobile device
 - ii. **Record a task**
 1. Users can create a new task containing info such as name (required), further info in text, deadline, category and priority.
 - iii. **Change a task**
 1. Users can change an existing task by editing info such as name, deadline, category, priority and Kanban style status
 - iv. **Add a subtask**
 - v. **Choose view layout**
 1. Users can choose the layout in which they see their task such as list view, Kanban view, thumbnail view or calendar view.
 - vi. **Choose filters for tasks**
 1. Users can choose filters for tasks shown and how they are ordered. Tasks can be shown by categories, deadlines, status or priority and ordered by these conditions. Time period of deadlines could also be chosen as a filter.
 - vii. **Change display theme**
 - viii. **Habit tracker**
 - ix. **Pomodoro timer**
 - x. **Alerts/notifications**
 - xi. **Search**
 - xii. **Offline tasks (re-sync when connection re-established)**
 - c. **Scope of subsequent releases**
 - i. **Group projects**
 1. Users can participate in group projects where tasks have the same features as for individuals and in addition the feature of the assigned user. A project manager could give permissions to edit tasks and have an overview of stats for all members of the group.
 - d. **Limitations and exclusions**
 - i. **Stats.** In order to display meaningful and useful statistics it's required that the user inputs a lot more data for each of their tasks, which will make the app more cumbersome and annoying to use. Therefore we have elected not to include such a feature.
3. Business context

- a. Stakeholder profiles
- b. **Project priorities**

Unexpected events may require changes to a project's scope, deadlines, resources, etc. For this project the cost and staff are obviously constraints where the budget 0 kr. with all staff members working the project for free. The maximum staff number is fixed and not adjustable. The schedule is a significant success factor that can't be waived where solid deadlines are in place and the product must be delivered in its state at deadlines. The quality and features have a degree of freedom with some adjustment possible.

	Features	Quality	Schedule	Cost	Staff
Constraint				x	x
Driver			x		
Degree of freedom	x	x			

2. Product backlog & estimates

Feature	Priority	Best case	Most likely case	Worst case	Expected case*
Create account	10	4	6	12	6:40
Login	10	3	5	8	5:10
Record a new Task	10	8	11	16	11:20
View tasks	10	6	10	16	10:20
Change a task	10	4	8	12	8
Search	20	5	8	12	8:10
Change View	20	16	18	24	18:40
Subtasks	20	3	8	12	7:50
Sync	20	8	20	40	21:20
Pomodoro timer	30	2	5	12	5:40
Habit tracker	30	6	8	14	8:20
Alert/ Notification	30	4	6	20	8
Change Display Theme	40	1	3	8	3:30
Total					124
Change to Group To-do list (Change To-Do lists)	50	16	40	80	42:20
Manage a Group To-do list:	50	16	40	80	42:20
Total					208:40

*Expected case is calculated using the PERT formula: $\text{ExpectedCase} = (\text{BestCase} + 4 * \text{MostLikelyCase} + \text{WorstCase}) / 6$. All numbers are in hrs.

Create account: As a user I can create my own account to the app to access my data.

Login: As a user I can log into my own account to access my data.

Record a new task: As a user I can record a new task so that I can keep track of the tasks I wish to complete.

View tasks: As a user I can select filters to view only the tasks I desire to see so that I can quickly get information about these specific tasks.

Change a task: As a user I can change tasks to fix any mistakes I may have made while creating them or when the nature of the task changes, as well as marking the task as finished when I'm done or delete it.

Search: As a user I can search for a specific task by name and/or multiple other filters so that I can always easily find the task/s I'm looking for in the app.

Change View: As a user, I want to be able to view my tasks as a list, Kanban table or a calendar in order to quickly get the information about all my tasks, the division of tasks by status or the distribution of tasks by date as needed.

Subtasks: As a user, I want to be able to add subtasks to a certain todo item so that each item can have more than one subtask and can easily be changed and marked done.

Sync: As a user I can synchronize my device with the cloud so that I can keep my tasks consistent across multiple devices.

Pomodoro timer: As a user, I want to be able to set a customized pomodoro timer in order to improve efficiency.

Habit tracker: As a user I can add Habits to my Habit Tracker, so that I can develop good habits and/or keep up with recurring tasks.

Alert/ Notification: As a user I can receive notifications when a task's deadline is nearing so that I do not forget to complete a task in time.

Change Display Theme: As a user I can change my display theme (e.g. Light mode, Dark Mode) to suit my preferences.

Change to Group To-do list (Change To-Do lists): As a member of a project team I want to be able to have a private to-do list and one or many group to-do lists shared with my team members in order to separate my private and team's tasks.

Manage a Group To-do list: As a project manager I want to be able to manage a group to-do list controlling access to the list, permission of action for each member such as the ability to

record or change a task and assigning ownership of tasks, in order to manage my team's tasks.

3. Project schedule

School Week	Date (From)	Assignment	Sprint	Other tasks*	Milestones
1	10.01.2022				
2	17.01.2022				
3	24.01.2022				
4	31.01.2022	Assignment 1 (06.02.2022)		Android Studio Spike	
5	07.02.2022	Assignment 1 Presentation	1	JSON Spike	
6	14.02.2022		1	Significant Progress on Assignment 2,	Preliminary UI for Log In, Account creation, Task View
7	21.02.2022	Assignment 2 (27.02.2022)	2	Finish Assignment 2	
8	28.02.2022	Assignment 2 Presentation	2		Create A Task, View Task, Change A Task
9	07.03.2022		3		
10	14.03.2022	Code Review Code	3		Subtasks, search, Change View
11	21.03.2022	Code Review (27.03.2022)	4	Work on Code Review	
12	28.03.2022	Code Review Presentation	4		Sync
13	04.04.2022		5		
14	11.04.2022		5		Pomodoro Timer, Habit Tracker, Alerts/Notifications, Change Display
15	18.04.2022	Final Project and Presentation	6	Create Presentation	Bug Fixing

* Other tasks column excludes the work on user stories for sprint milestones