

CENG-322

DELIVERABLE 2

Team name: F.R.I.E.N.D.S.& CO.

Project: Smart Parking

Members:

Ramesh Narayan Gaire – N01452430

Roshan Shrestha – N01457532

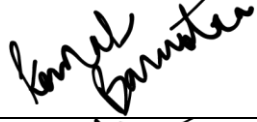



Rushi Bhandari – N01464259

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Signatures:

Name	ID	Signature	Effort
Komal Bamotra	N01426087		100%
Ramesh Narayan Gaire	N01452430		100%
Roshan Shrestha	N01457532		100%
Rushi Bhandari	N01464259		100%

Project Scope and goals:

The development of the Internet of Things (IoT) has made it possible to seamlessly integrate complex solutions into frameworks and practises for urban administration and management.

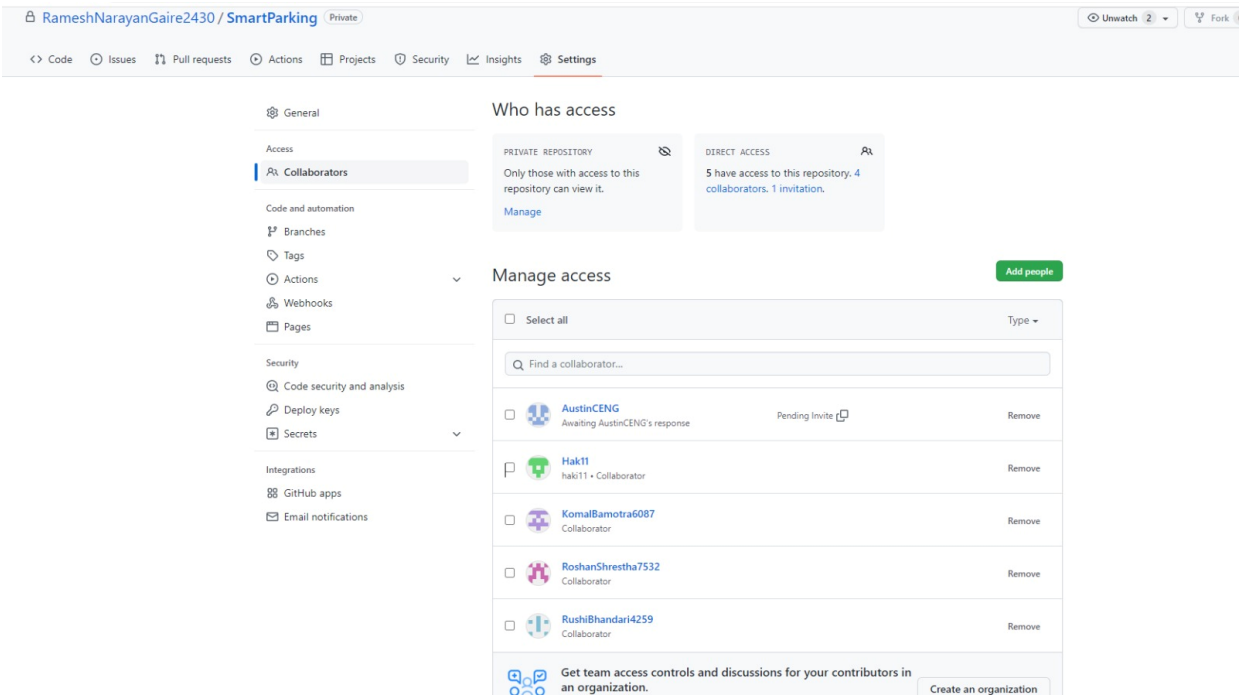
Our main objective is to make parking convenient spaces for working-class individuals in crowded cities. Due to an increase in the number of cars being owned by city residents, parking is becoming an issue for everyone. The development of a smart parking application powered by the Internet of Things (IoT) provides parking managers and drivers with crucial information about available spots as well as related services like reservations of the spots.

GitHub Repo link and Strategy:

<https://github.com/RameshNarayanGaie2430/SmartParking.git>

Git has a variety of different "merge strategies". It can be used to locate a base commit. We applied the commit, push and pull strategy, to update our android studio project.

Screenshot of invitation:



Stories and tasks:

Story 1:

SmartParking Roadmap

Last seen

R

R

+1

Invite / 4

Board Power-Ups

Main Table

Timeline

Dashboard

+

Integrate

Automate

New Task

Search

Person

Filter

Sort

Hide

Easy accessibility to register and log in as a user

	Task		Person	Status	End Date	Priority	Size	
<input type="checkbox"/>	Registration step for the new users		R	Done	Oct 6	High	Small	
<input type="checkbox"/>	Login functionality		RS	Done	Oct 6	High	Medium	
<input type="checkbox"/>	Code to access forgotten password		RS	Done	Oct 6	High	Large	
<input type="checkbox"/>	save account settings		R	Done	Oct 6	Medium	Medium	
<input type="checkbox"/>	verification of account through gmail		RS R	Done	Oct 6	High	Medium	
<input type="checkbox"/>	+ Add Task							

Story 2:

✓ Home screen dashboard and layout

<input type="checkbox"/>	Task		Person	Status	End Date	Priority	Size
<input type="checkbox"/>	Layout and icons for better accesibility	+	N	Done	Oct 9	High	Medium
<input type="checkbox"/>	Booking tab for users	+	R	Done	Oct 9	Critical ⚠	Medium
<input type="checkbox"/>	Feedback option for users	+	R N	Done	Oct 9	Low	Medium
<input type="checkbox"/>	Share the app button	+	R	Done	Oct 9	Medium	Medium
<input type="checkbox"/>	Customer Support for users	+	N	Done	Oct 9	High	Medium
<input type="checkbox"/>	+ Add Task						

Story 3:

... ✓ Navigation drawer options to make work easy for users 5 Tasks

<input type="checkbox"/>	Task		Person	Status	End Date	Priority	Size
<input type="checkbox"/>	Booking slots screen creation	+	R	Waiting for review	Oct 8	High	Large
<input type="checkbox"/>	Booking details screen creation	+	R	Done	Oct 8	Critical ⚠	Large
<input type="checkbox"/>	Advanced settings options for user	+	RS	Done	Oct 8	High	Large
<input type="checkbox"/>	Customer Support screen	+	RS	Working on it	Oct 8	Medium	Medium
<input type="checkbox"/>	Feedback screen	+	RS	Working on it	Oct 8	Medium	Medium
<input type="checkbox"/>	+ Add Task						

Story 4:

✓ Creation of cloud database for storing data of users

<input type="checkbox"/>	Task		Person	Status	End Date	Priority	Size
<input type="checkbox"/>	Create firebase cloud server	+	N	Done	Oct 10	High	Medium
<input type="checkbox"/>	Trial and error logging to db	+	N	Done	Oct 10	High	Medium
<input type="checkbox"/>	source code to connect db and app	+	R	Done	Oct 10	High	Large
<input type="checkbox"/>	design of register and login screens	+	N	Done	Oct 10	Medium	Large
<input type="checkbox"/>	storage of data on firebase	+	N R	Done	Oct 10	Low	Small
<input type="checkbox"/>	+ Add Task						

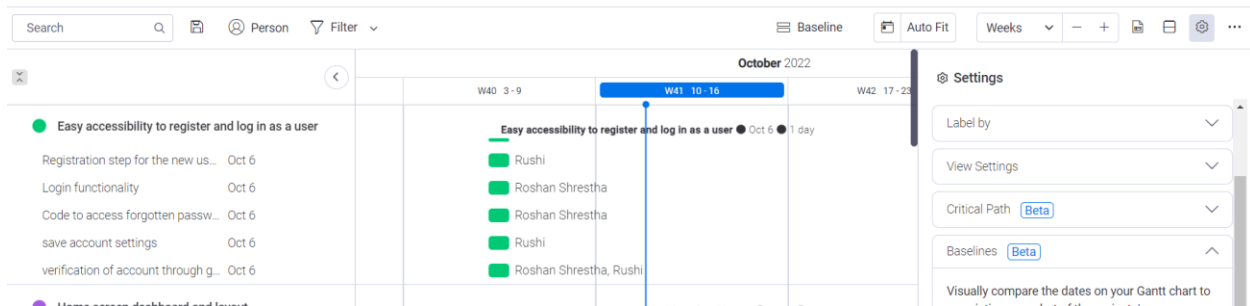
Story 5:

Design of the screens and extra features

<input type="checkbox"/>	Task		Person	Status	End Date	Priority	Size
<input type="checkbox"/>	menu action bar on the toolbar			Done	Oct 8	Low	Small
<input type="checkbox"/>	QR code generation for users			To be done	Oct 17	Critical	Large
<input type="checkbox"/>	SnackBar-undo the action by user			To be done	Oct 17	High	Large
<input type="checkbox"/>	payment options for user			To be done	Oct 17	Critical	Large
<input type="checkbox"/>	users can change the resolution and mode			Working on it	Oct 15	Medium	Medium
<input type="checkbox"/>	+ Add Task						

Dashboard:

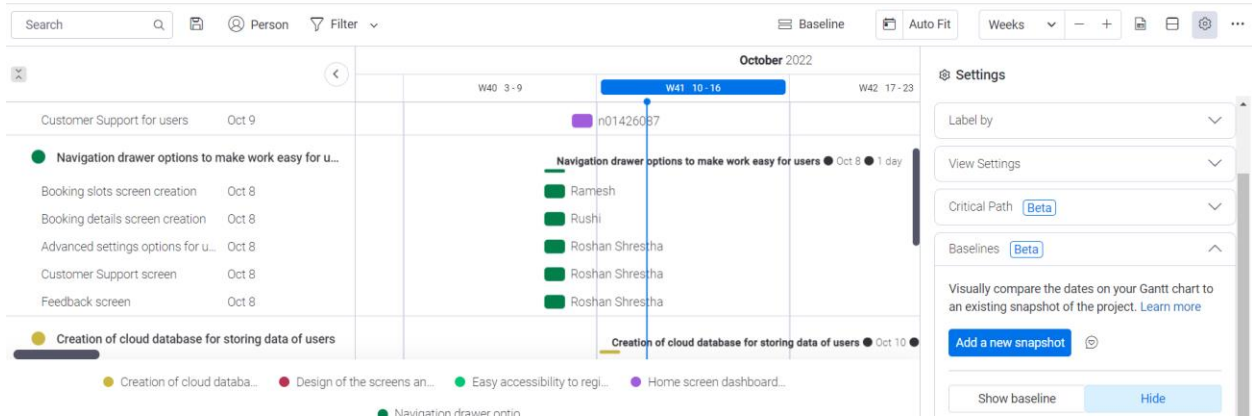
Gantt



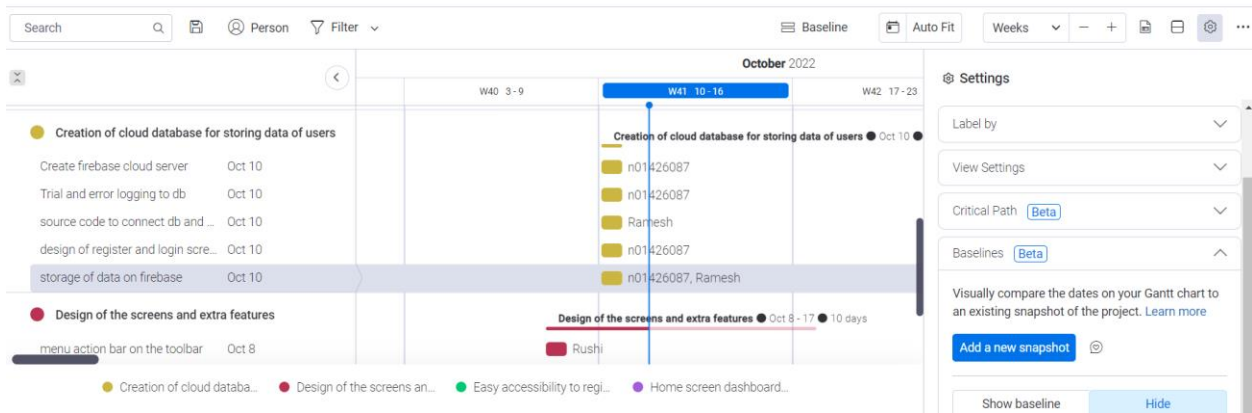
Gantt



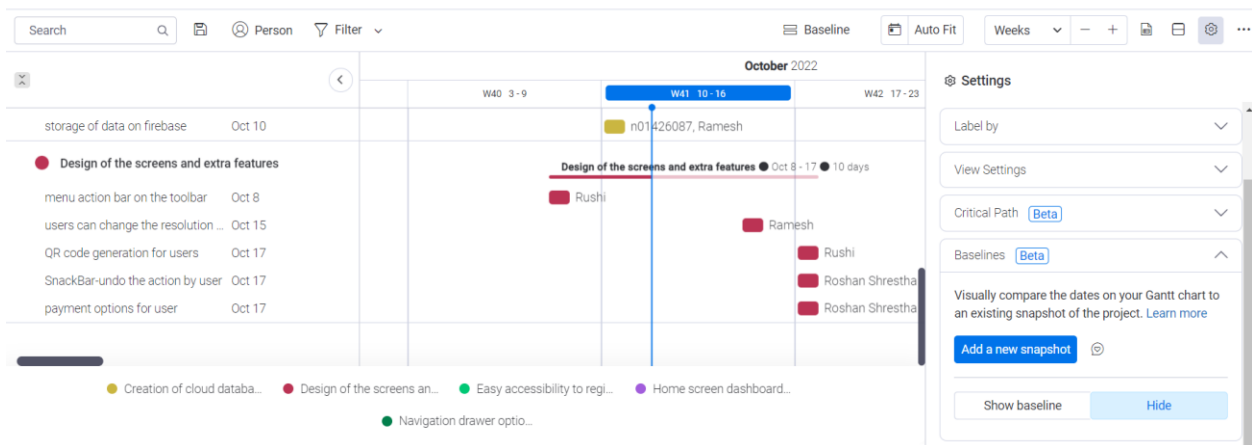
Gantt



Gantt



Gantt



DoD criteria:

We discovered these 5 DoD elements after many trial-and-error coding techniques for various source codes for screens and functionality, and they were ideal for our Android Studio application of SmartParking. Each of the user stories we chose was broken down into five tasks that each team member was required to complete by the end of the day.

We initially struggled to keep up with the tasks, but with the help of our teammates' support and our own thoughts, we were able to finish them. In addition, Monday.com was used to check and update task statuses.

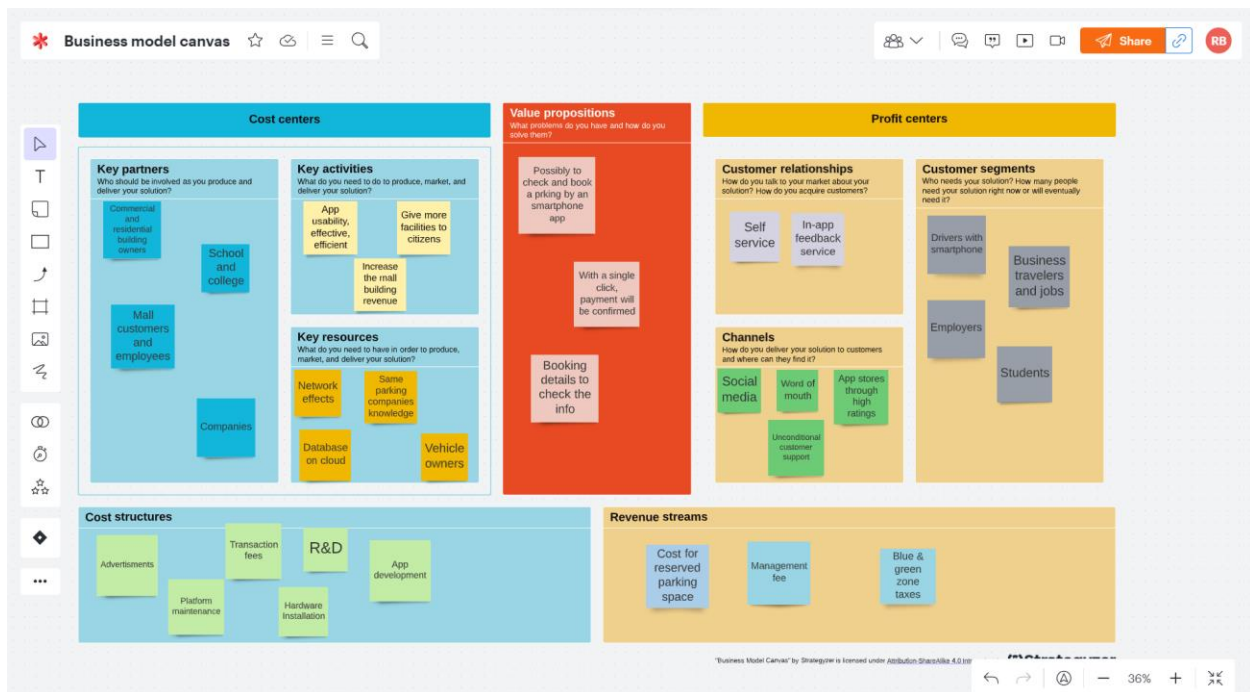
We were able to alter the status of tasks from being worked on to done with a lot of hard effort in android studio as well as for the documentation portion.

List of items included in DoD:

As of right now, we are aware that the term "done" refers to a predetermined list of tasks that must be finished before a project or user-story can be said to be finished. For the DoD, we included these things:

- ✚ Regression tests run and pass
- ✚ Acceptance criteria is verified during testing.
- ✚ Unit testing-written and passed.
- ✚ Defects are in an "acceptable state" to the product owner.
- ✚ Coding tasks completed.

Business Model Canvas:



Link to the website:

[Business model canvas: Lucidspark](https://lucidspark.com/business-model-canvas)

DB on cloud: FireBase Screenshot

The screenshot shows the 'Project settings' page for a project named 'SmartParking'. The 'Users and permissions' tab is selected. The left sidebar contains the Firebase logo, 'Project Overview', and a list of product categories: Authentication, Storage, Extensions, Build, Release & Monitor, Analytics, Engage, and All products. The main content area displays a table of project members. At the top, there is a search bar labeled 'Search members' and an 'Add member' button. The table has columns for 'Member' and 'Roles'. Four members are listed, all with the role of 'Owner'. Below the table, it states '10 service accounts also have access to this project'. A link for 'Advanced permission settings' is at the bottom right.

Member	Roles
komal.bamotra06@gmail.com	Owner
narayanamesh22@gmail.com	Owner
roshanksth@gmail.com	Owner
Rushi Bhandari bhandarirushi13@gmail.com	Owner

The screenshot shows the 'Authentication' page. The left sidebar is identical to the previous screenshot. The main content area has tabs for 'Users', 'Sign-in method', 'Templates', 'Usage', and 'Settings'. The 'Users' tab is active. It features a search bar labeled 'Search by email address, phone number, or user UID' and an 'Add user' button. Below is a table with columns: Identifier, Providers, Created, Signed in, and User UID. Four users are listed. At the bottom right, there are controls for 'Rows per page' (set to 50) and '1 - 4 of 4'.

Identifier	Providers	Created	Signed in	User UID
komal.bamotra06@gmail.c...	Google	Oct 11, 2022		vGcVDndpLcQIAQCpniwjnTqHAY2
narayanamesh22@gmail...	Google	Oct 11, 2022		MWCtEq3yusRlrp0CBYQt5sCqxGB3
roshanksth@gmail.com	Google	Oct 11, 2022		nes8W8u0QyPC1hGVy5ctinMbD4...
bhandarirushi13@gmail.co...	Google	Oct 11, 2022	Oct 11, 2022	1wsdsX8StfX8T241Yohi0LIInac2

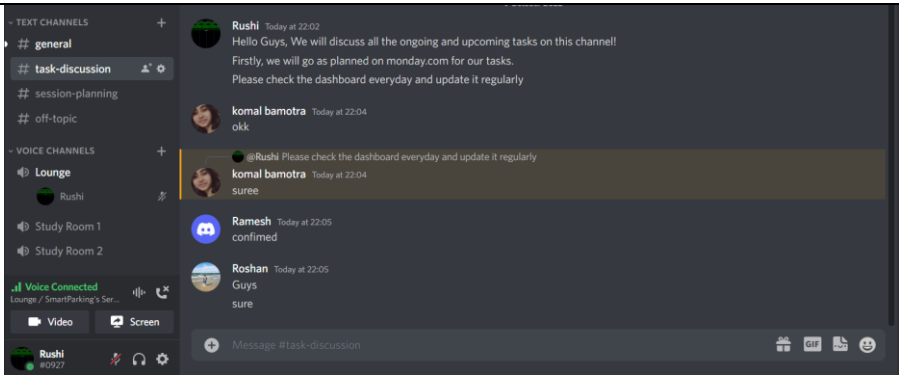
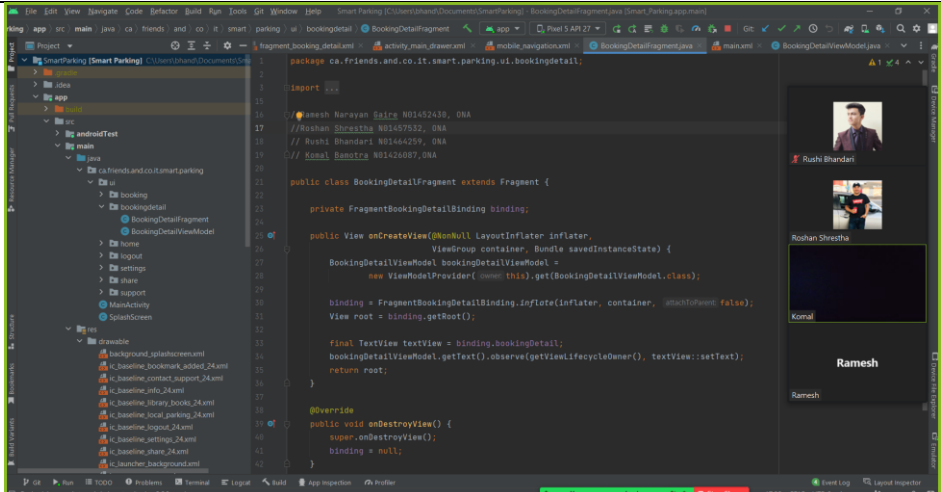
The screenshot shows the 'Storage' page. The left sidebar is identical to the previous screenshots. The main content area has tabs for 'Files', 'Rules', and 'Usage'. The 'Files' tab is active. At the top, there is a warning message: 'Protect your Storage resources from abuse, such as billing fraud or phishing' with a 'Configure App Check' link. Below this is a search bar with the text 'gs://smartparking-ae1fd.appspot.com' and an 'Upload file' button. A table with columns 'Name', 'Size', 'Type', and 'Last modified' is shown, but it is empty with the message 'There are no files here yet'.

New features and functionality:

For the deliverable 2, this time we added some features and functionality like:

- Snackbar tool for the users to undo the action within a small period
- Design and layout of all the screens on the application
- Register and login page for users
- Settings options to change mode of the application

Table record for stand-ups:

Tools used	Records and screenshots:
Discord tool: To discuss the problems regarding assigning of task and completion of the same. Date: 06/10/2022	
Zoom Meeting tool: For daily stand-ups and discussion of the android application Date: 08/10/22	

Monday tool and Discord:

To know the updates of tasks and general discussion about the project.

Date:
09/10/2022

The image shows a Discord server interface on the left and a Monday.com workspace on the right. The Discord server is named "SmartParking" and has a sidebar with channels: #welcome-and-rules, #goals, #general, #task-discussion, #session-planning, and #off-topic. There are also voice channels: Lounge, Study Room 1, and Study Room 2. The Monday.com workspace is titled "SmartParking Roadmap" and displays a task board with columns for Task, Person, Status, End Date, and Priority. The tasks are organized into sections: "Easy accessibility to register and log in as a user", "Home screen dashboard and functionality", and "Navigation drawer options to make work easy for users".

Task	Person	Status	End Date	Priority
Screen layout and icons	Ramesh	Working on it	Oct 15	High
About the application screen	Rushi	Done	Oct 15	Critical A
Menu bar creation	Rushi	Done	Oct 15	Low
Booking details screen	Rushi	Waiting for review	Oct 15	Medium
Share the app button	Rushi	Working on it	Oct 15	High
Booking details screen creation	Rushi	Waiting for review	Oct 15	High
Booking details screen creation	Rushi	Working on it	Oct 15	Critical A