

Deliverable 2 report


Chesm

Smart City

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## Team Member

Team Member Names	Signatures	Student ID
Project Leader: <b>Thanh Phat Lam</b>		N01335598
<b>Hieu Dang Chu</b>		N01371619
<b>Dung Ly</b>		N01327929
<b>Dinh Hoa Tran</b>		N01354661

## Github Repo

[nhoxrongvip/SmartCity \(github.com\)](https://github.com/nhoxrongvip/SmartCity)

## Description

This project helps you monitor the urban environment just by a look at your phone. All the simple things like air quality, garbage day, city lights will be displayed on the app

## Participation

Name	Id	Signature	Effort
Thanh Phat Lam	N01335598	phat	<ul style="list-style-type: none"><li>• Create splash screen</li><li>• Create Trello, Slack for teams</li><li>• Create database</li></ul>
Dung Ly	N01327929	Danny	<ul style="list-style-type: none"><li>• Create Overflow menu</li><li>• create Request Permission</li><li>• create login screen</li></ul>
Dinh Hoa Tran	n01354661	Tran	<ul style="list-style-type: none"><li>• Created a menu</li><li>• Fix landscape and portrait layouts</li><li>• Support language</li></ul>

Hieu Chu	n01371619	Hieu	<ul style="list-style-type: none"><li>• Create application setting fragments, add fragment into overflow menu</li><li>• Add lock/unlock portrait mode switch</li><li>• Add light/dark mode switch</li></ul>
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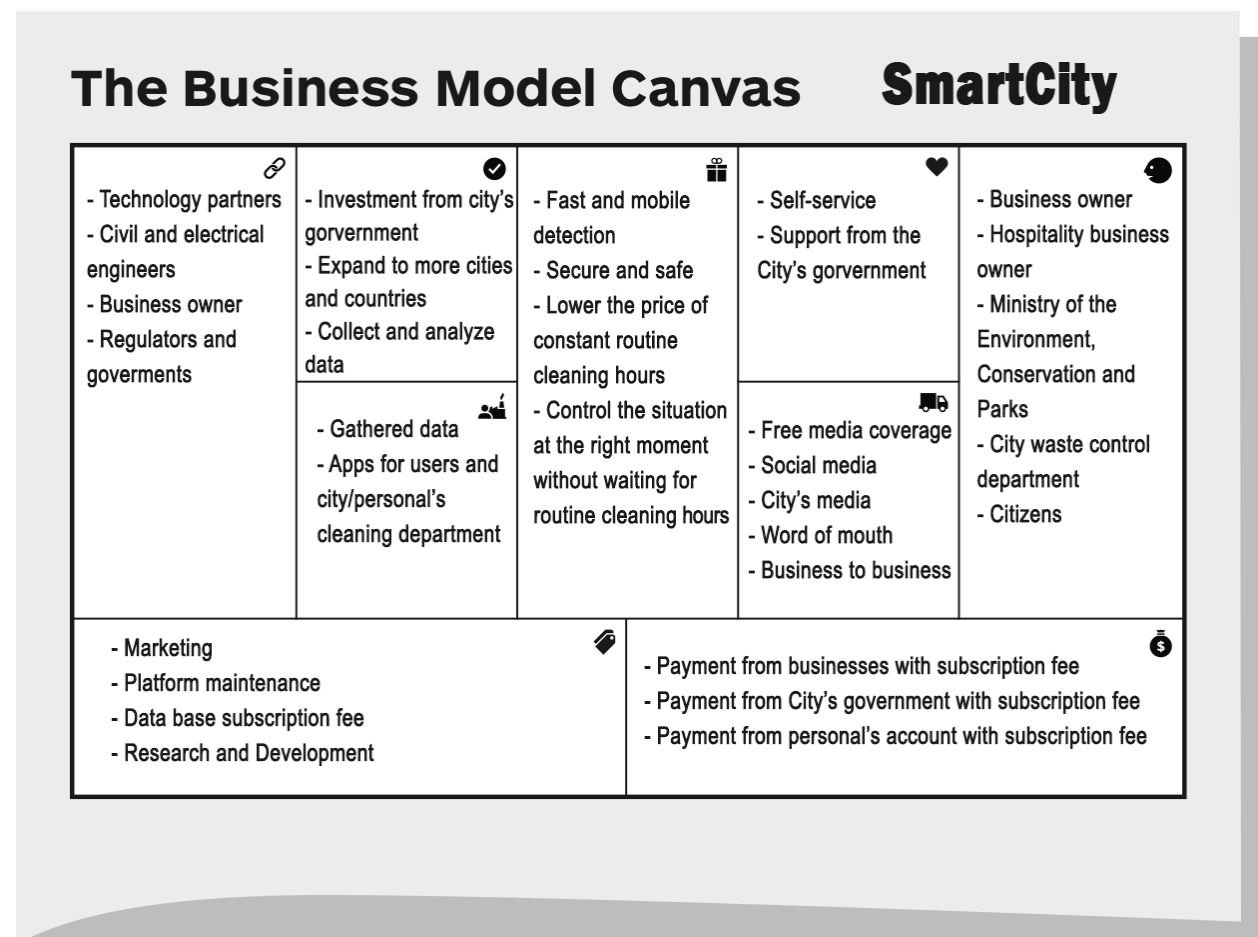
## Definition of Done

Tasks are divided between team's members based on the fragments that each member is in charge of. For example, the login-screen is a fragment which is in charge of Dung Ly will be split into a story block with check-list tasks.

The check-list tasks will be the DoD of the process. In order to build these checked lists, the team will have a meeting where everyone will propose their ideas, pathways and solutions to the Project Managers, who will then consider the list and put them up into the story blocks with the team member's name.

As the list is filled with check marks, the story block will consider it to be finished. All team's members will take responsibility to finish their story blocks that are assigned to them. **For the final DoD, the project must be pushed onto Github. All team members must update their own project on their personal devices and run the program or simulate the application in order to test for defects and bugs.**

## The Business Model Canvas

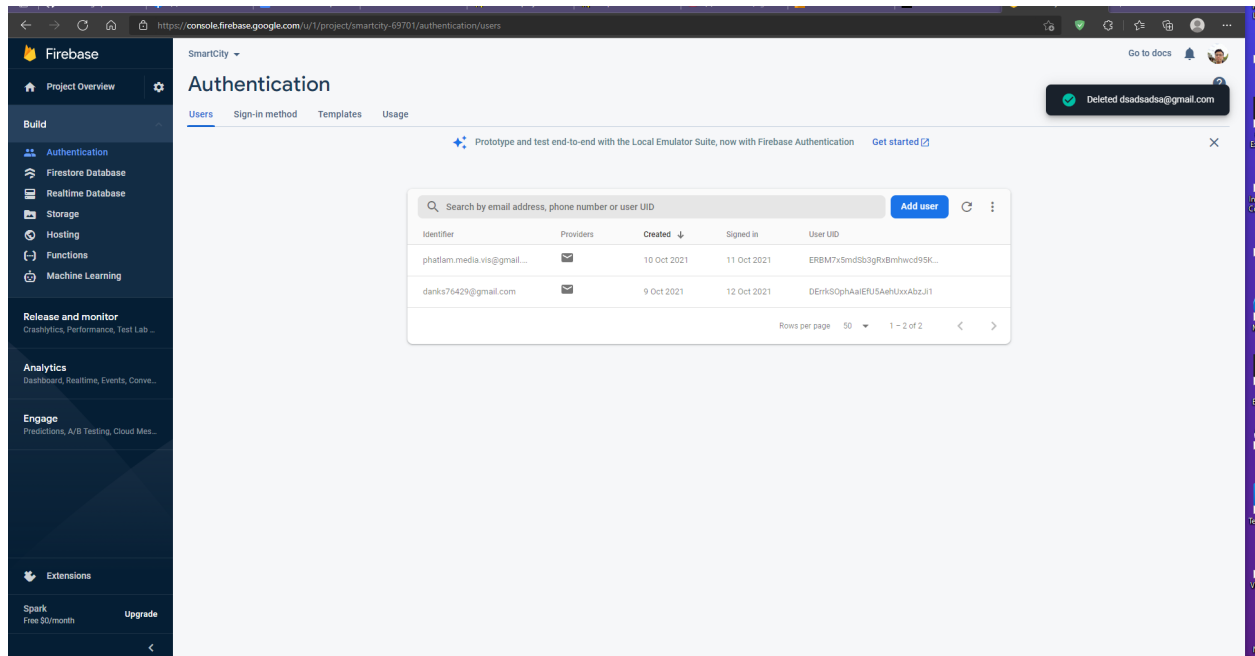


## Database created

Based on the proposal for the application, our team decided to use mysql , but we found out that firebase supports more than mysql to use on android studio.

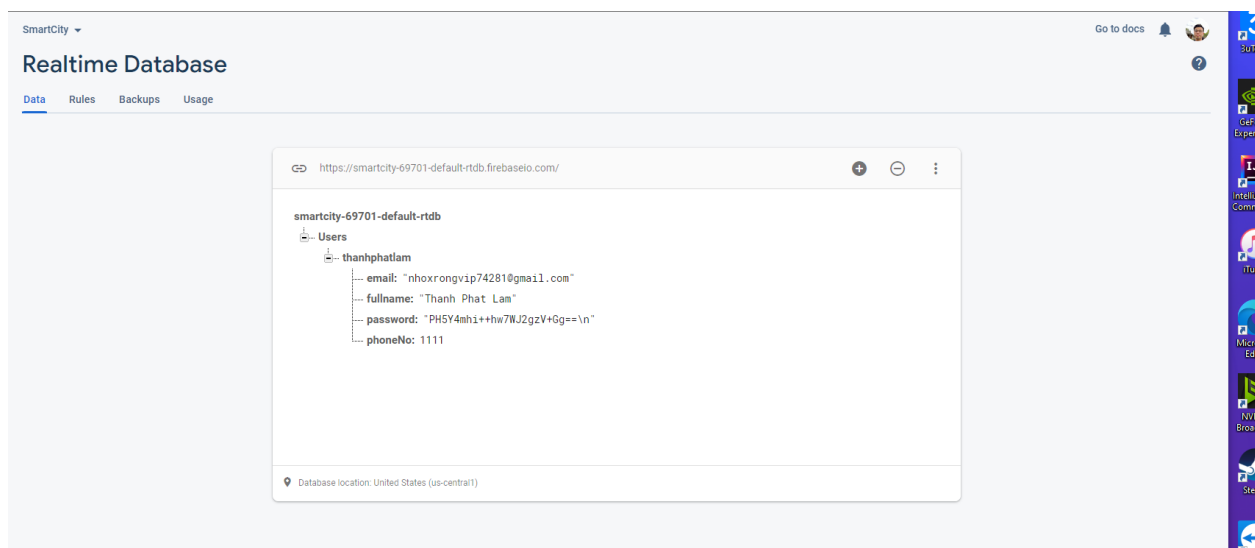
For the database we will use it for username will be the keys for who register :

Email authentication with firebase.



Users information will be stored in a realtime database:

Passwords will be encrypted before being stored on the database.



Stories

Login Screen

in list [Stories](#)

MEMBERS

LABELS

D

+

In Progress

+

DATES

☐

Oct 5 - Oct 12 at 12:00 AM

DUE SOON

▼

≡

Description

Edit

Tasks that should be done in the login screen.  
Tick box if the task is done

☒

Tasks in login screen

Hide checked items

Delete

60%

☒

Show error when username not in database

☒

Show error when username/password is wrong

☒

Edit text will show the error if they are empty or what error

☐

Include login options: Google

☐

Should have "Rememeber me" option. Save username

Add an item

≡

Activity

Show details

Write a comment...

D

dannyly3

yesterday at 10:49 PM

Options remember me will be add, after i finished for user register

😊

-

[Reply](#)

-

[Delete](#)

SUGGESTED

⚙

Join

ADD TO CARD

Members

Labels

Checklist

Dates

Attachment

Cover

Custom Fields

Add dropdowns, text fields, dates, and more to your cards.

Start free trial

POWER-UPS

+ Add Power-Ups

AUTOMATION

i

+ Add button

ACTIONS

Move

Copy

Make template

Watch

Archive



## Settings Screen



in list [Stories](#)

MEMBERS

LABELS

DATES

SUGGESTED



NOT DONE



Oct 11 - Oct 15 at 12:00 AM



Join



### Description

Add a more detailed description...



### Tasks

Delete

0%

- ☐ Ask for user location. Display message whether successful or not
- ☐ When dark mode is chosen, change every background to gray
- ☐ Lock and unlock portrait mode
- ☐ If temperature unit switch is chosen, change to that unit (C/F)
- ☐ When "Help&Feedback" button is clicked, go to "Help&feedback" fragment

Add an item



### Activity

Show details



Write a comment...

ADD TO CARD

Members

Labels

Checklist

Dates

Attachment

Cover

Custom Fields

Add dropdowns, text fields, dates, and more to your cards.

Start free trial

POWER-UPS

+ Add Power-Ups

AUTOMATION



+ Add button

ACTIONS

→ Move

Copy

Make template

Watch

Archive



## Air Quality Monitor Screen ✕

in list [Stories](#) 

MEMBERS



+

LABELS

NOT DONE

+

DATES

☐

Oct 11 - Oct 15 at 12:00 AM 

ADD TO CARD

 Members


 Labels

 Checklist


 Dates

 Attachment

 Cover

 Custom Fields

Add dropdowns, text fields, dates, and more to your cards.

 Start free trial

POWER-UPS


+ Add Power-Ups

AUTOMATION 

+ Add button

ACTIONS


→ Move

 Copy

 Make template

 Watch 

 Archive

 Share



Description

Edit

Given that I want to monitor air quality in the area ....

Note: features in this screen :

Data: CO2, NO2, PM2.5, Temperature, Humidity, VOC Level checkboxes: High, low, average

Date range: today, yesterday, 7 days, 15 days Detail



Tasks

Delete

0%



If I select any of the data checkbox, it should show in the dashboard (default: average)



If any of the level checkbox is selected, show on dashboard



If any of the data range is select, show on dashboard (default : today)



If i click on detail button, it displays a table with all data



In the detail screen, I can choose any date and it will show data of that day

Add an item



Activity

Show details



Write a comment...

## [Settings]Ask for permission



in list [Stories](#) 

MEMBERS

LABELS



In Progress



DATES



Oct 7 - Oct 11 at 4:58 PM

OVERDUE



### Description

Add a more detailed description...

### Location Permission

Hide checked items

Delete

40%

- ☒ If i click in a "Get location" button, it should ask for my current location
- ☐ If a permission is granted, I can see my current area/city in app.
- ☐ If a permission is granted, Lat & Long will be sent to backend and it then gets the current air condition at that location.
- ☐ If permission is denied, It should display a dialog explained how permission is important to this app (This happens 1 time only)
- ☒ If i insist on not granting permission, snack bar display saying "Permission denied".

Add an item

### Activity

Show details




Write a comment...

ADD TO CARD

 Members


 Labels

 Checklist


 Dates

 Attachment

 Cover

 Custom Fields

Add dropdowns, text fields, dates, and more to your cards.

 Start free trial

POWER-UPS

+ Add Power-Ups

AUTOMATION




+ Add button

ACTIONS

 Move


 Copy

 Make template

 Watch



 Archive

 Share

[Register Screen] New User Register

in list [Stories](#)

MEMBERS

D

+

In Progress

+

DATES

☐

Oct 6 - Oct 11 at 7:50 PM

DUE SOON

▼

⋮

Description

Add a more detailed description...

☒ Register User

Hide checked items

Delete

60%

☒ If email is registered before, alert displays with a message "Email is registered"

☐ If username is registered before, alert displays with a message "username is registered"

☐ In the password field, it should follow strong password guidelines

☒ After signing up, information should be sent to User database on Firebase

☒ When the user signs up sucessfully, display dialog and return to log in-screen

Add an item

⋮

Activity

Show details

Write a comment...

D

dannyly3

yesterday at 10:48 PM

username exists check having some problems

SUGGESTED

⚙

Join

ADD TO CARD

Members

Labels

Checklist

Dates

Attachment

Cover

Custom Fields

Add dropdowns, text fields, dates, and more to your cards.

Start free trial

POWER-UPS

+ Add Power-Ups

AUTOMATION

i

+ Add button

ACTIONS

Move

Copy

Make template

Watch

Archive

5

## Progress

Week 2:

- Add Login screen
- Add settings screen
- Add Splash screen
- Every screen has its features without functionality.

## Daily stand-ups outcome

The team chose Slack in order to communicate and give out notification about any update of the project.

However, for more communication, the team also uses different methods such as social network messaging applications which includes WhatsApps, Facebook Messengers. Also communication applications such as Discord is also a place for the team to use verbal communication for the project.

