



Human Computer interaction

Project Report

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Submitted to Ma'am Afshan Saad

Project:

PC Remote

User analysis

Analysis of User by observed:

Connect in one go: In this will connect to PC automatically if it was previously connected to the same phone.

Distant control: To control the PC from a distance you can control it and it does not require any kind of wire.

All in one: wireless keyboard and control pc require separate Bluetooth devices and application but in this all you need an application and it will control both keyboard and pc screen in easy way through your smartphone.

Task analysis:

Task 1: Connect via Bluetooth

The connection of device should be made via Bluetooth in order to control the PC. For this, the user open the app and it pop up the option to open Bluetooth so it can find nearby devices to pair with. Then user connects the device and the application will remember the previously connected PC just like normal Bluetooth pairing functionality.

Task 2: Interface

When you connect it successfully to the PC an interface is shown which contains some options like **mode, panels, settings, disconnect**.

Mode: When you select the mode option two options are available, portrait mode and landscape mode.

Portrait Mode:

In portrait mode the keyboard is available as normal android keyboard and you can use it easily. And there will be no mouse the mouse functionality will be replaced by the touchscreen you can move screen via touch.

Landscape Mode:

In landscape mode you have the keyboard same as the normal PC/laptop so you can access the more keys for further functionalities like home key, capslock key. In this mode the mouse is also replaced by the touch screen. The keyboard will only pop-up when there are fields where information needed to be filled via keyboard just like normal android phone.

Panels:

In panel option there are 3 options to use PC.

1. File sharing
2. Watch screen
3. Full screen access.

File Sharing:

In file sharing mode you can just share file from your mobile to your PC

Watch Screen:

In watch screen mode you can just watch the pc's screen in your phone screen.

Full Screen Access:

In this mode you can control your whole pc through your phone.

Task 3: Exit

When your work is done or you want to close the app first you need to switch off the Bluetooth to disconnect the phone from the PC then you can close the application. The phone will remember the PC to connect the phone to PC for later use.

Domain Analysis:

We create a Remote apps help remotely access and securely control your desktop a set of interaction strategies that could provide a framework on how to control your PC via phone. Our focus will on these analyses.

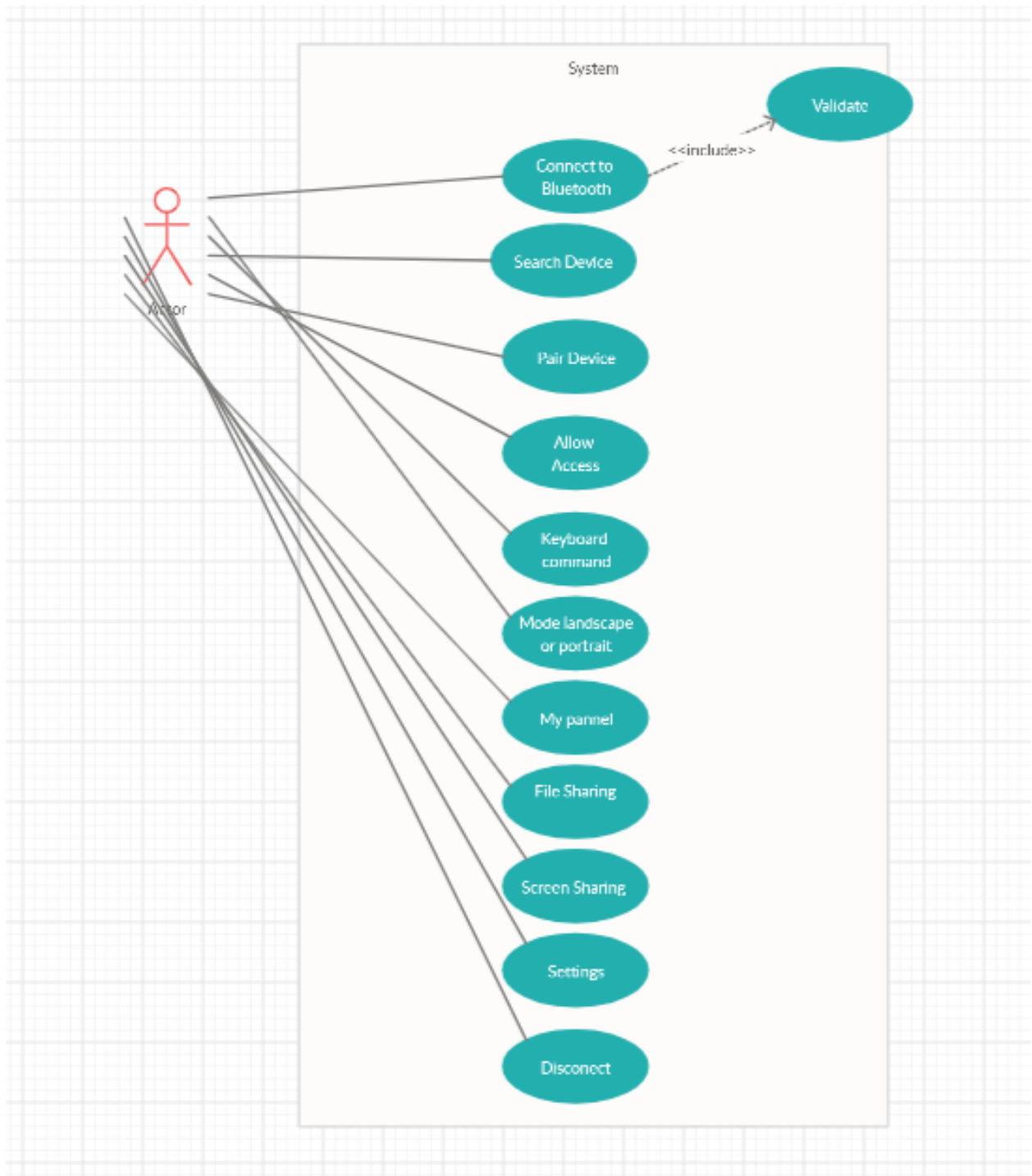
- Connect phone to PC via Bluetooth
- Remember device for later use
- Control pc through phone
 - Screen sharing
 - File sharing
 - Full screen access

Problem statement

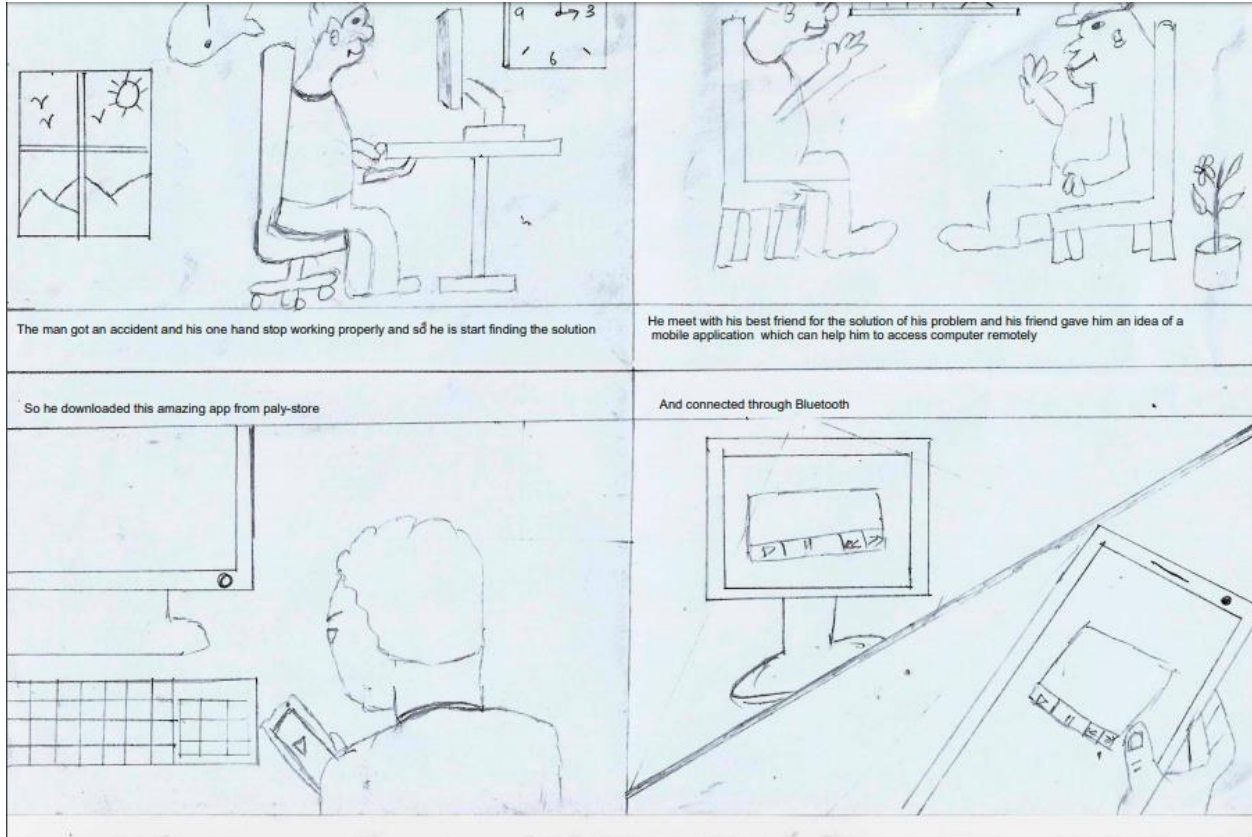
PC remote app are being developed to perform tasks such as keyboard functions, mouse functions all these to be control through phone wirelessly. These tasks will be performed by through the phone itself, without any involvement of a PC or any kind of wire, in direct

Proximity to users who want to control PC through their phone. Aims to create a set of interaction strategies to provide an efficient and comfortable use of PC without using keyboard or mouse. User only need an application in phone and a Bluetooth in a PC to connect phone to PC.

Use Case



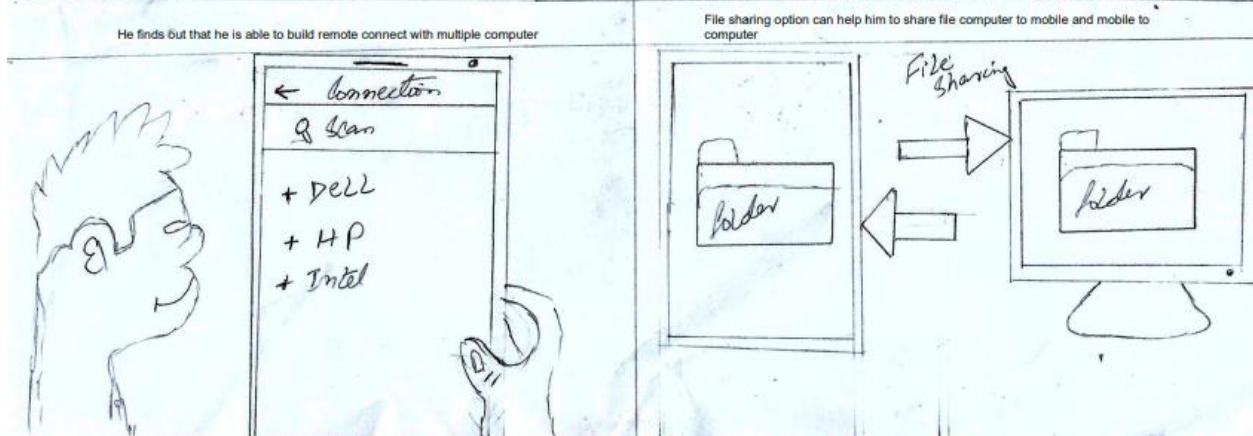
Storyboard





Once he connected so he find out some amazing feature like access mouse remotely

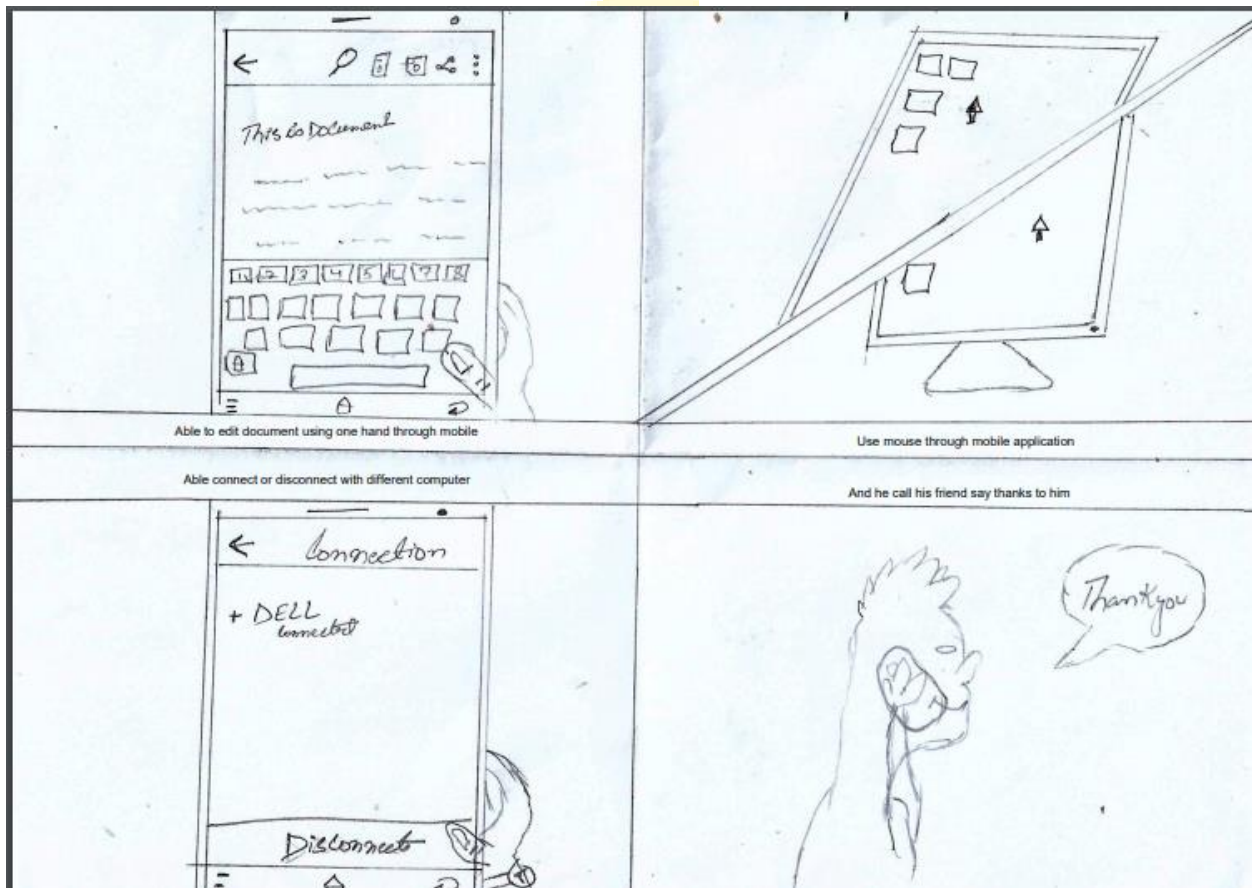
And start exploring the feature



He finds out that he is able to build remote connect with multiple computer

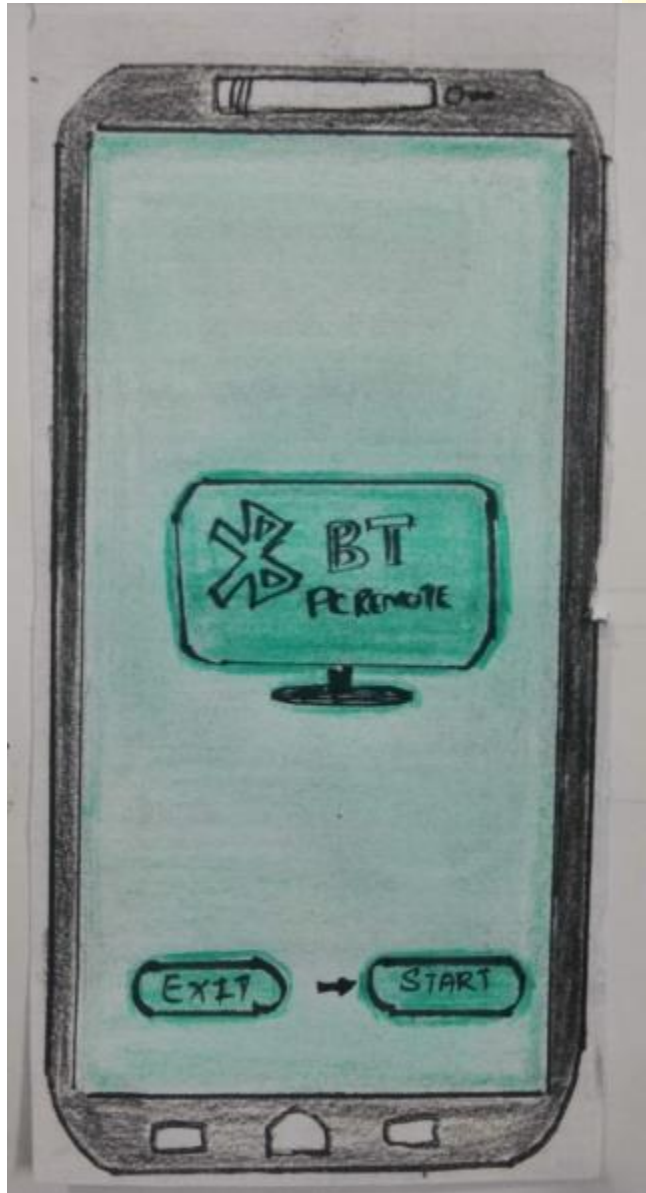
File sharing option can help him to share file computer to mobile and mobile to computer

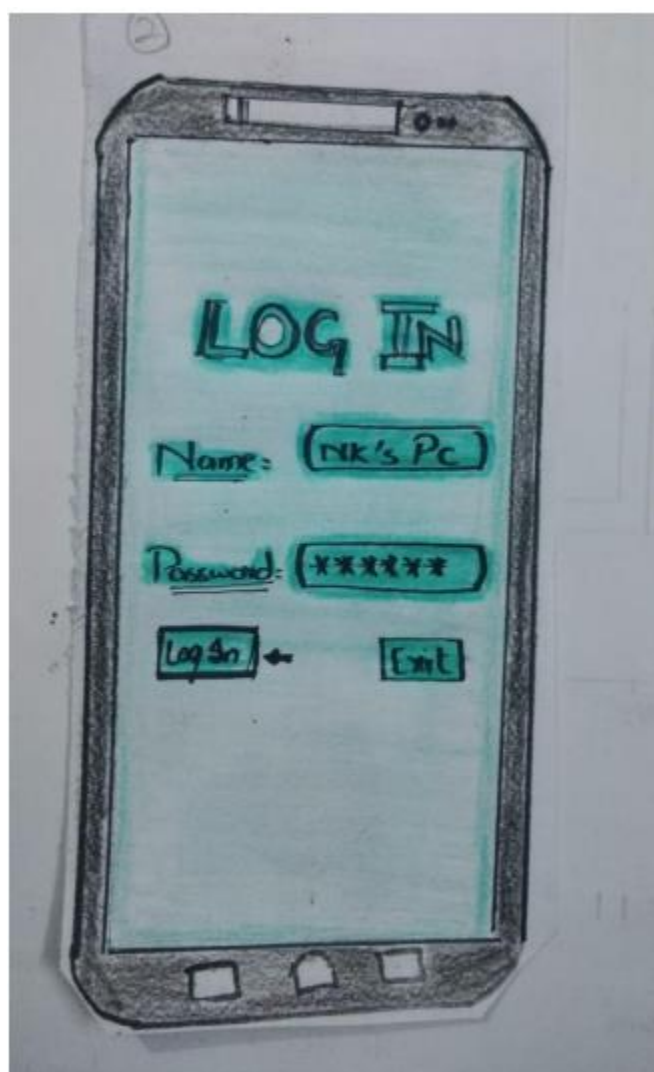
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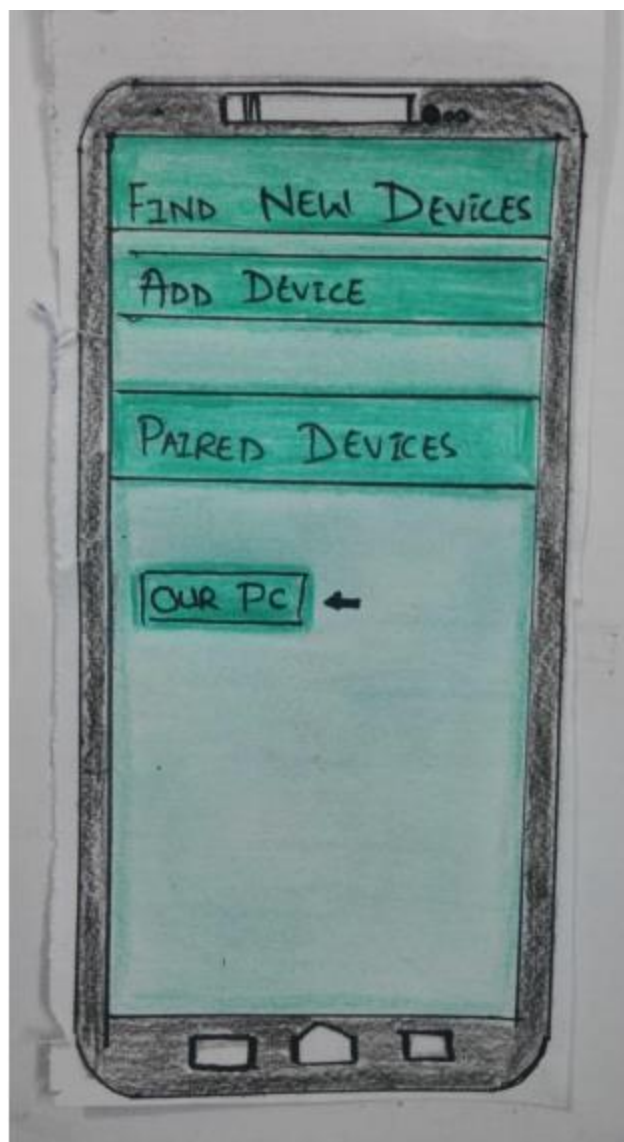
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High Fidelity prototype

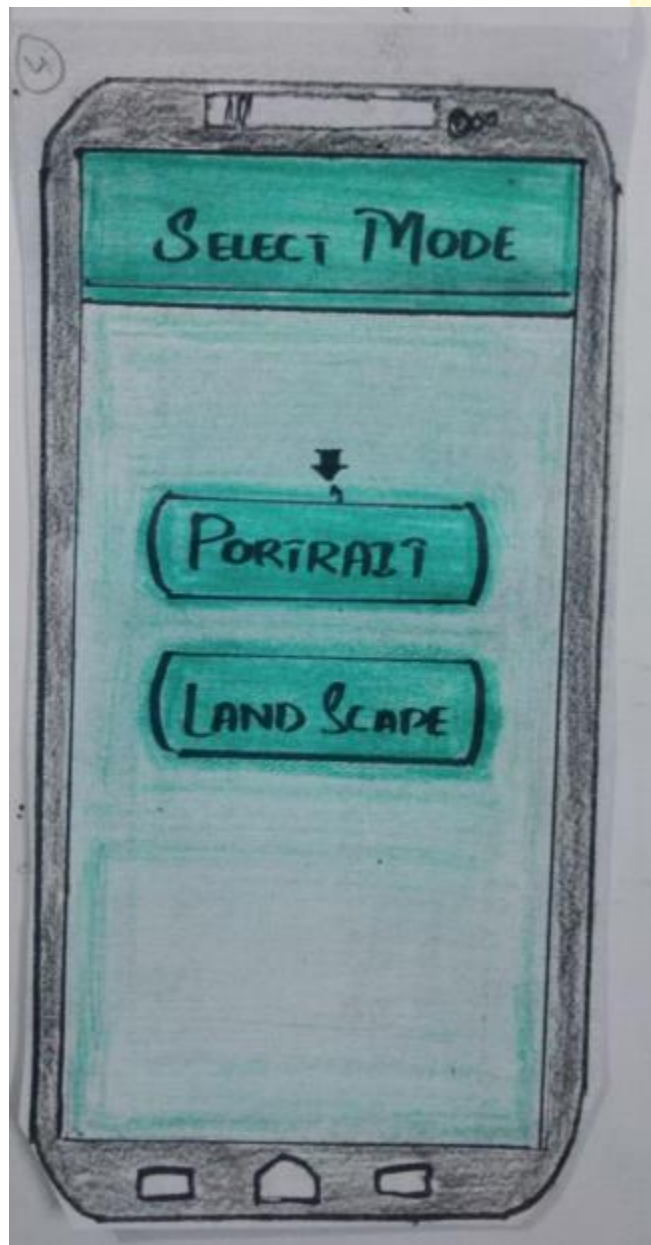


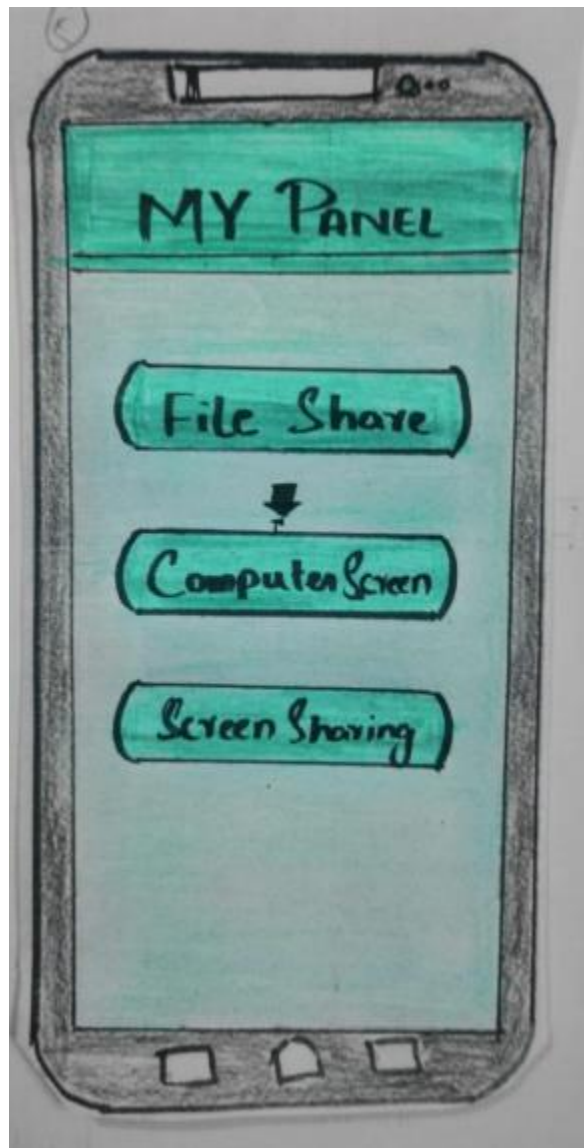


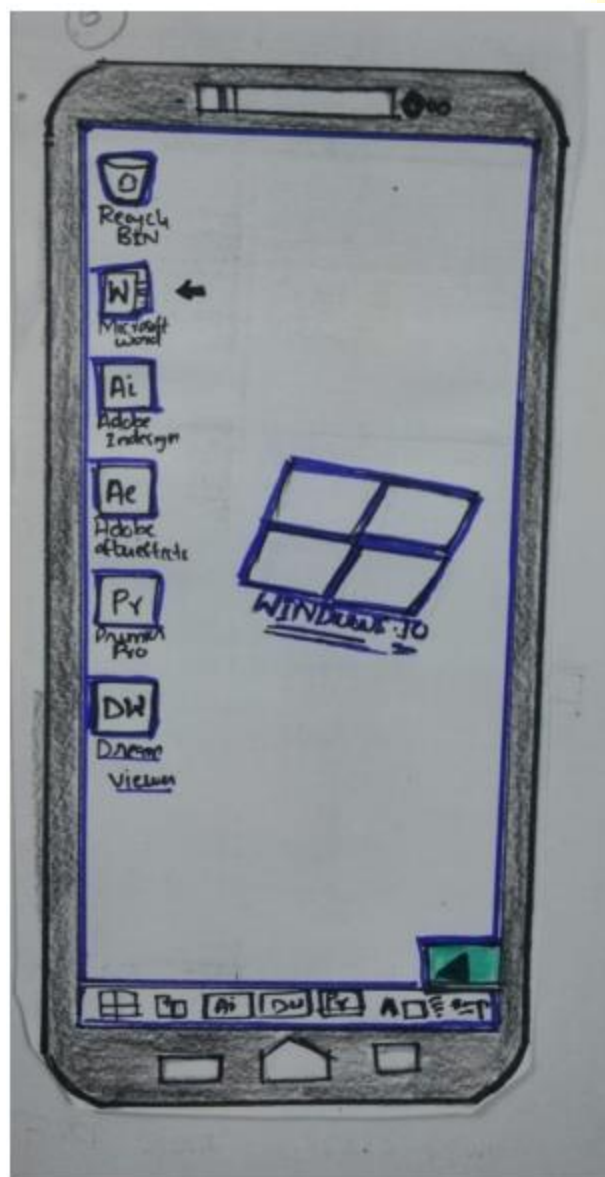
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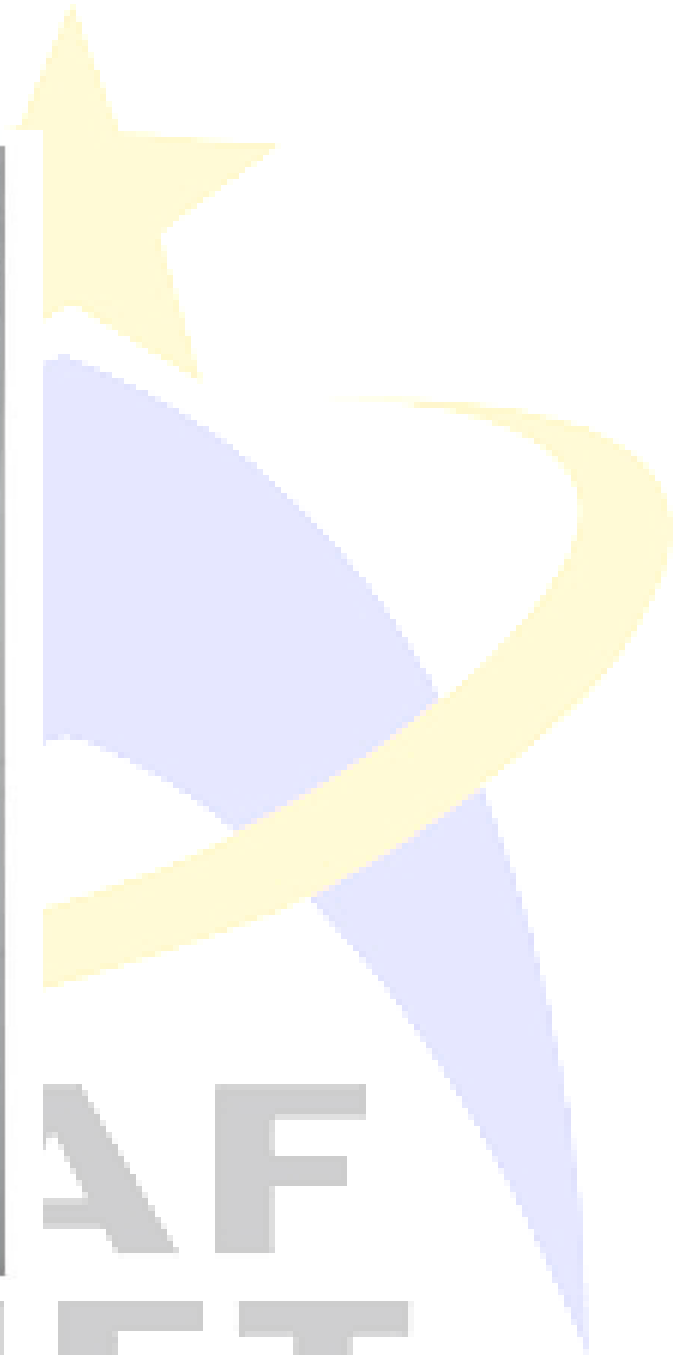
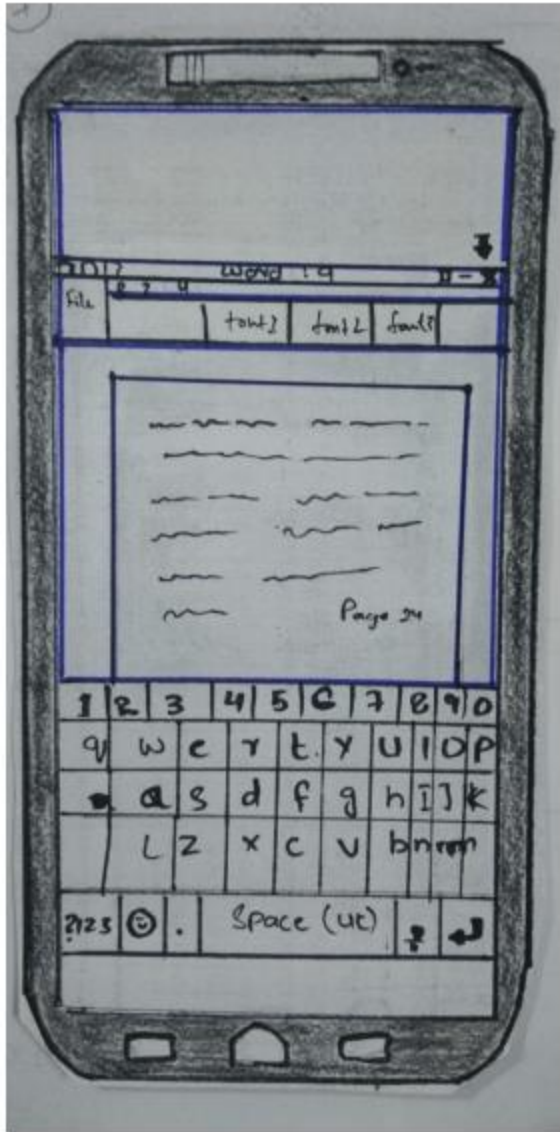


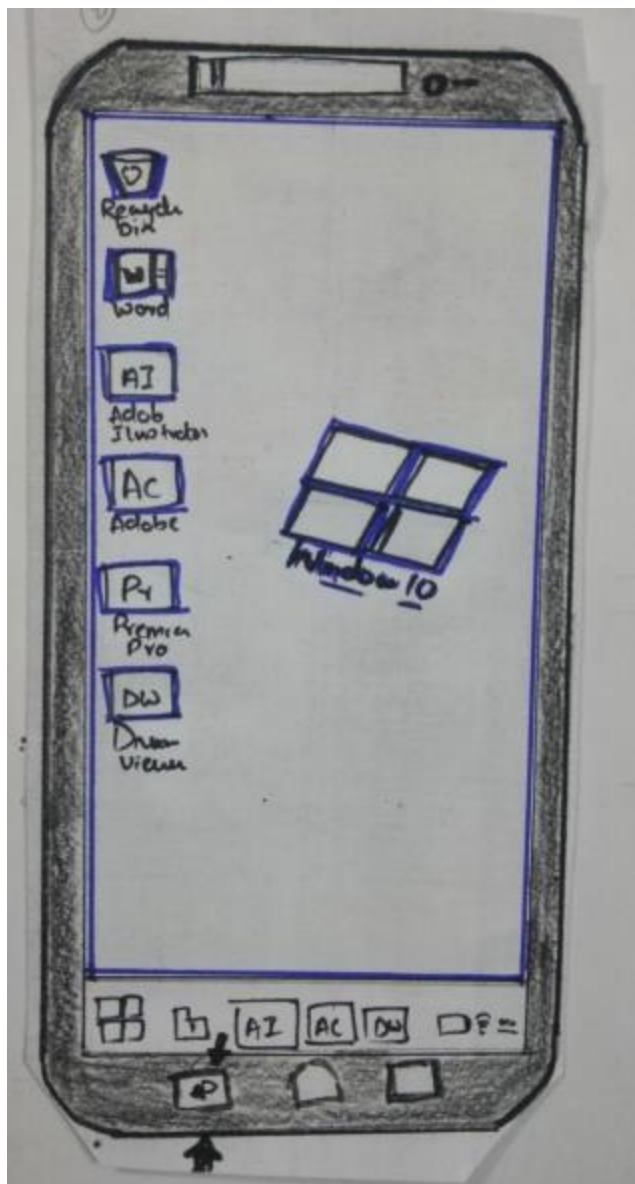
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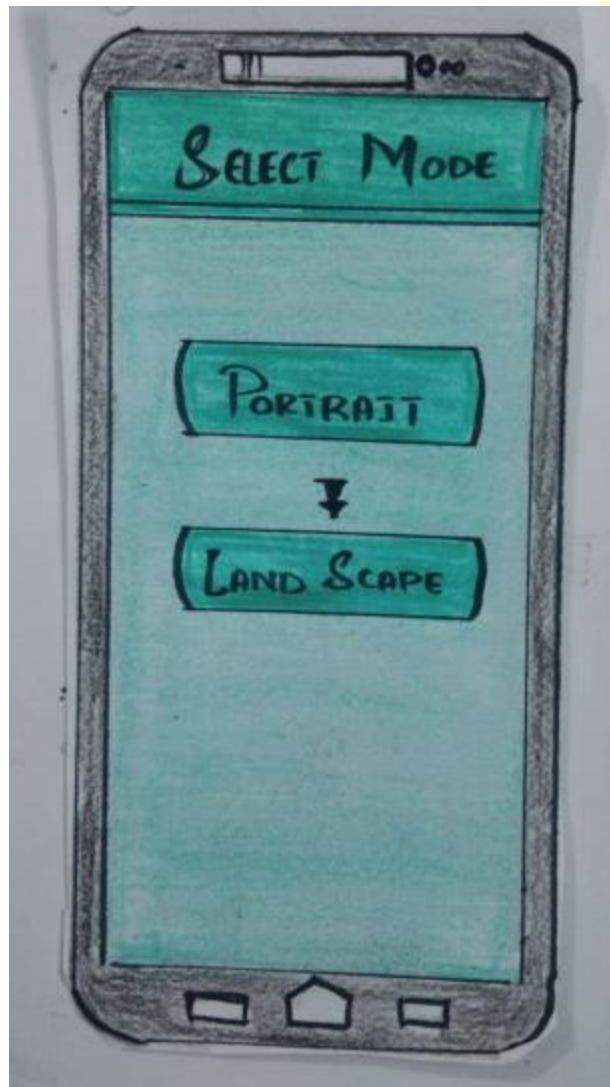


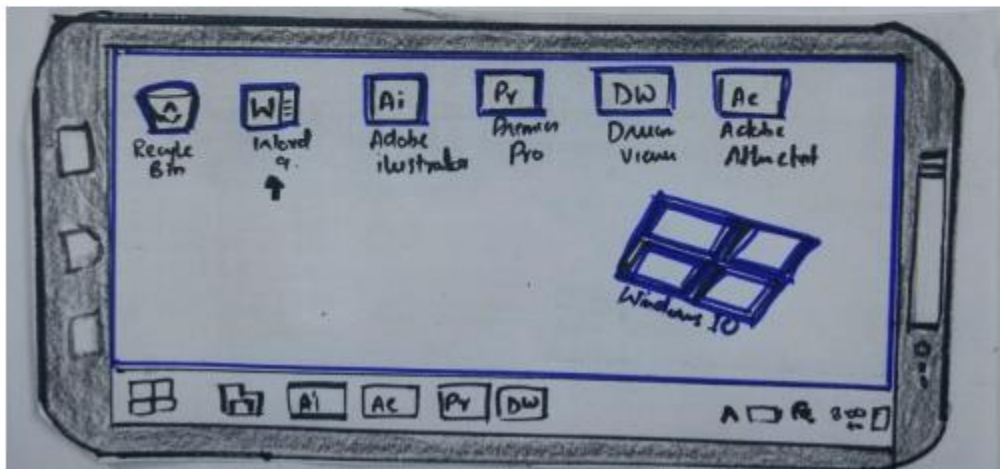
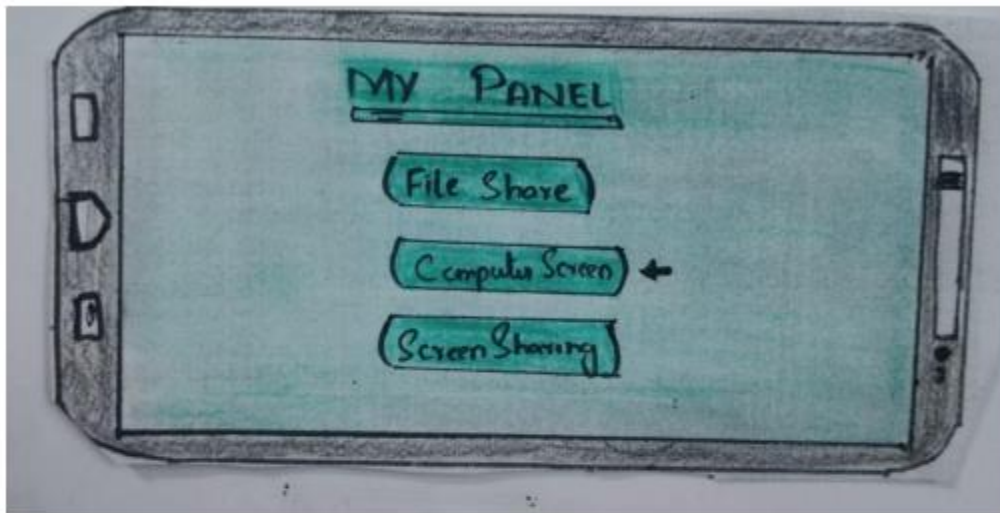


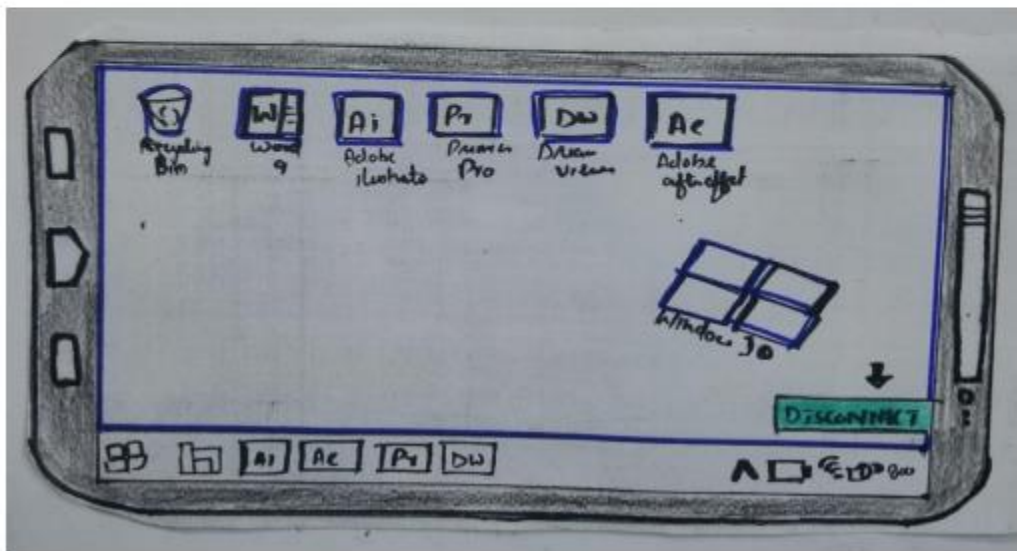
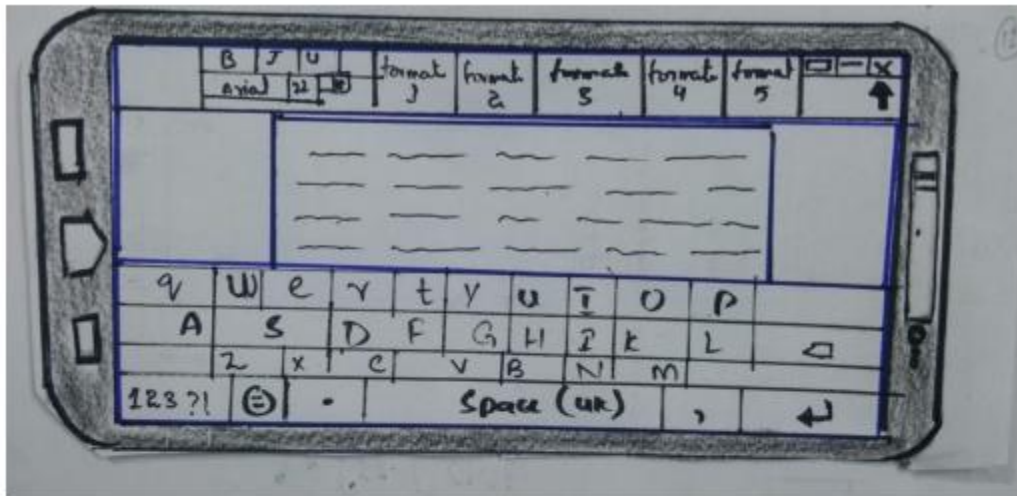




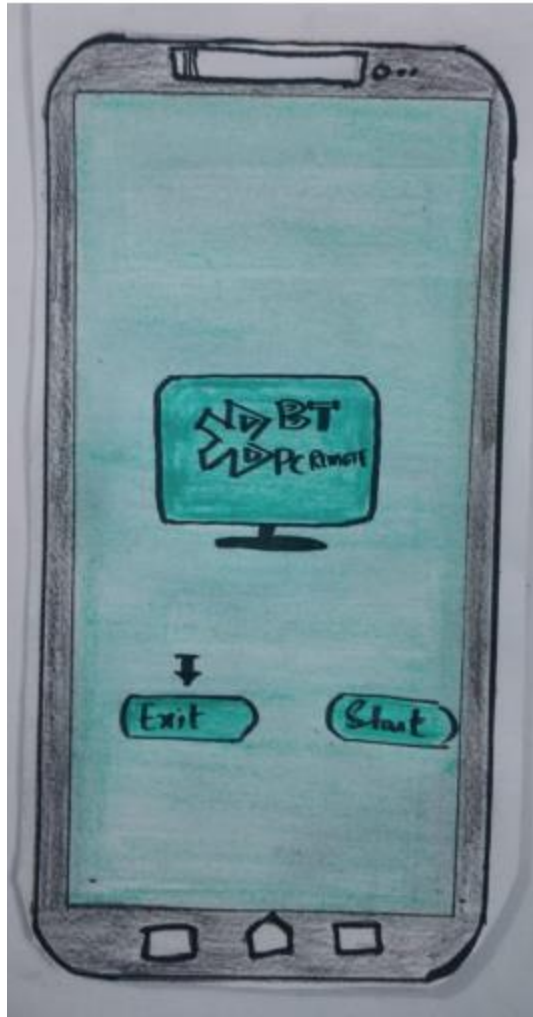








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Personas

PERSONA

NAME: Suhaib Uddin Siddiqui

AGE: 24

POSITION: Senior business development executive.

BIO:

Work in a reputed company as senior business development executive. Has to deal with lots of problems and doing a 10- 6 job. Have to go through lots of E-Mails and calls as an online meeting.

WANTS & NEEDS:

- Want to give his full potential at work and deal with all the problems with fully focused not to be disturbed by other little and silly problems.
- Need to work cozy and friendly environment if working at/from home without any hassle or disturbance and want to work long hours tirelessly.

PAINS & FRUSTRATIONS:

- Got tired after working long hours in front of laptop or PC. Now he has a back and wrist pain because of working long hours and after long hours he need big screen but small keyboard through which he can control all the E-mails and online meetings and don't have to sit on a fixed place
- He can't work more than 6 hours and need to take short breaks to keep himself working in office hours but by this he lose his focused and his work load increases on daily basis

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PERSONA

NAME: Irfan Azeem

AGE: 23

POSITION: BBA graduate

BIO:

He is obsessed and love to play games, He attend university and works in a local company and look after the company's filing, data entry and documentations.

WANTS & NEEDS:

- He wants to work in a comfortable environment and want to work everything through smartphone.
- He want an app through which he can handle all the filing data entry and documentation through smartphone because he has a great command on smartphone keyboard and easy to handle a device which is compatible can complete documentation more faster than Laptop and is easy for him to use carry mobile anywhere easily.

PAINS & FRUSTRATIONS:

- He can't complete documentation faster through laptop and it's quite frustrating for him.
- As long as he is in front of laptop he cannot work comfortably as he prefer smartphone over laptop because he thinks from smartphone he can do documentation more easily and he don't need to take that big laptop everywhere in the office.

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PERSONA

NAME: Junaid Ahsan

AGE: 28

POSITION: project manager at software houses.

BIO:

Work in a reputed software house as project manager. Has to deal with lots of problems and doing a 9- 7 job. Have to go through lots of E-Mails and calls as an online meeting. Keep checking on team progress and projects.

WANTS & NEEDS:

- Want to give his full potential at work and deal with all the problems with fully focused not to be disturbed by other little and silly problems.
- Need to work in user friendly environment if working at/from home without any disturbance and want to work long hours tirelessly and tension free.

PAINS & FRUSTRATIONS:

- Got tired after working long hours in front of laptop or PC. Now he has a back and wrist pain because of working long hours and after long hours he need small keyboard and screen through which he can control all the E-mails and online meetings and don't have to sit on a fixed place
- He can't work more than 6 hours and need to take short breaks to keep himself working in office hours but by this he lose his focused and his work load increases on daily basis. He have to keep check on team progress and work and can't move his eye from them so he need a system which is portable and easy to use so he can take break and keep an eye on his team.

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PERSONA

NAME: Ibrahim khan

AGE: 25

POSITION: supervisor at ibex.

BIO:

He loves to work and have interaction with different people. Chat on different social media platform and along this do his job. He is addicted to online games and loves to play as he got free time.

WANTS & NEEDS:

- As his work is supervising he can't sit at one place and have to take rounds so it's difficult to do his work and keep eye on his tasks and other thing so a portable plat form to access pc will do his job he can do all off things simultaneously.
- He want an app through which he can handle all the filing data entry and documentation through smartphone because he has a great command on smartphone keyboard and easy to handle a device which is compatible can complete documentation more faster than Laptop and is easy for him to use carry mobile anywhere easily.

PAINS & FRUSTRATIONS:

- He can't complete documentation faster through laptop and it's quite frustrating for him. He feel easy to use his mobile and had habit of it he do his work faster than pc or laptop.
- As long as he is in front of laptop he cannot work comfortably as he prefer smartphone over laptop because he thinks from smartphone he can do documentation more easily and he don't need to take that big laptop everywhere in the office.

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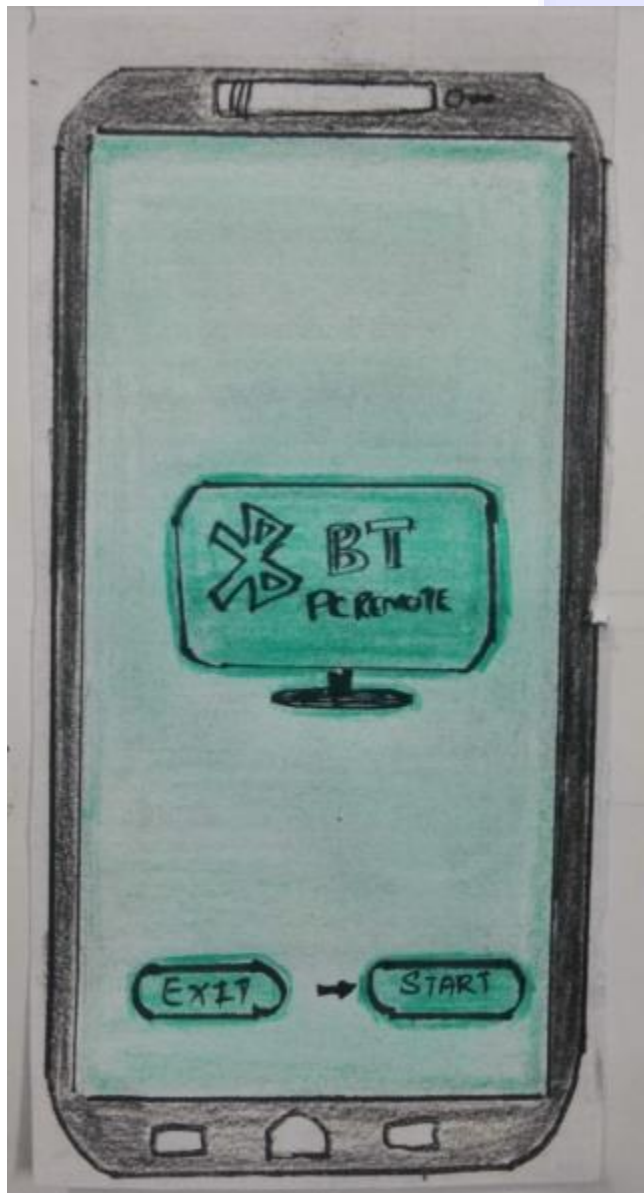
Cognitive walkthrough

Q1: Will the customer realistically be trying to do this action?

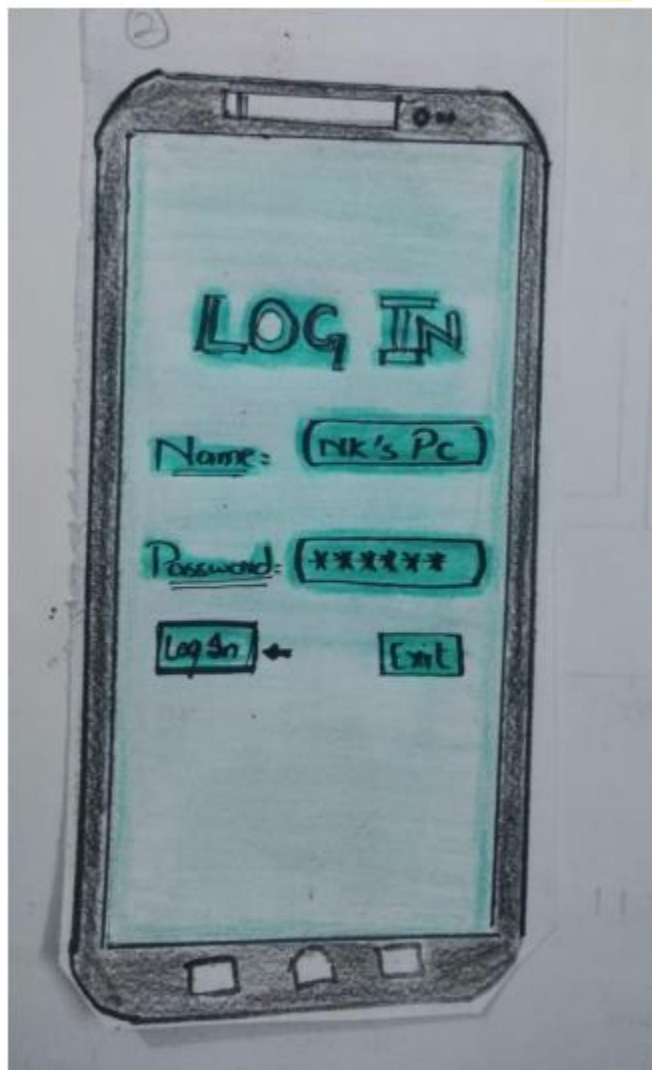
Q2: Is the control for the action visible?

Q3: Is there a strong link between the control and the action?

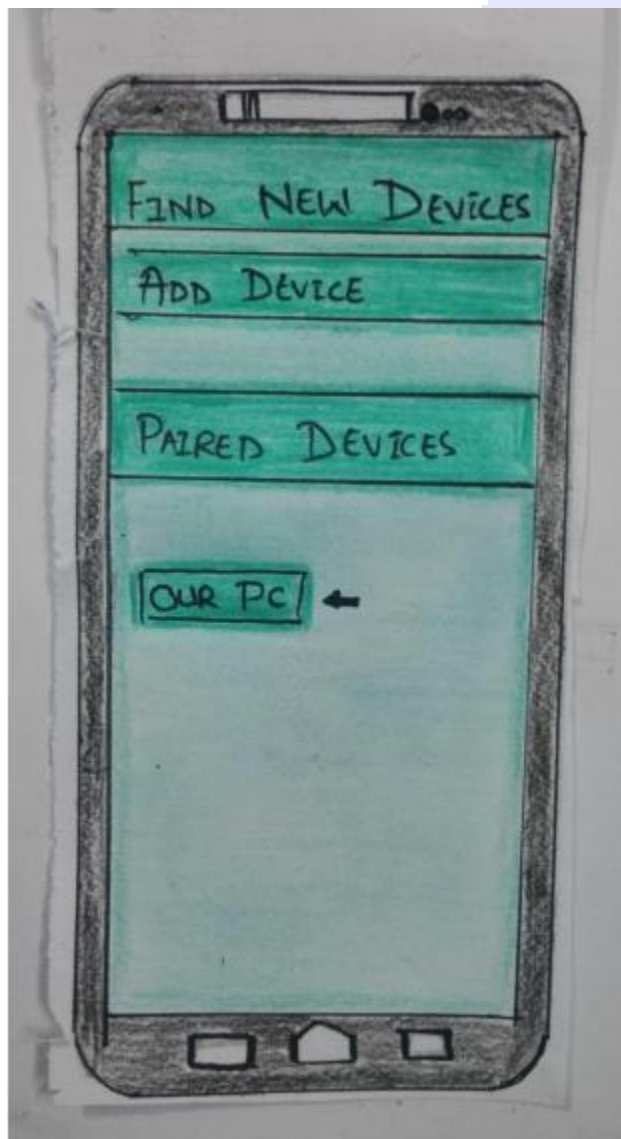
Q4: Is feedback appropriate?



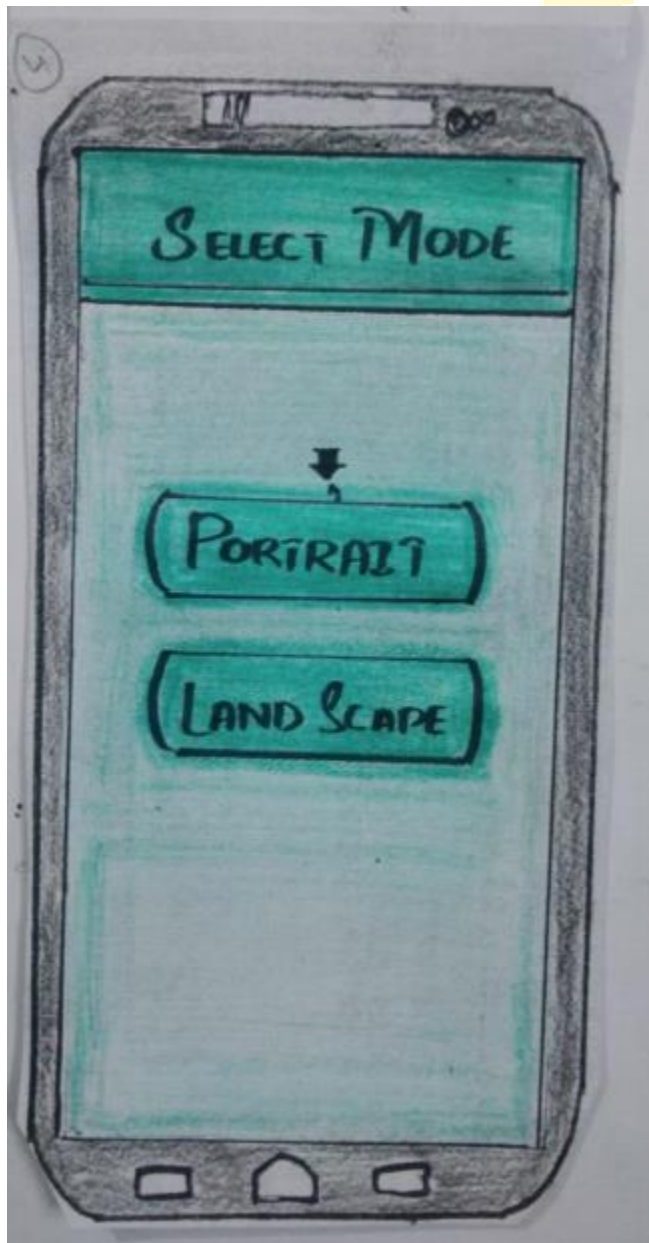
1. Yes, understandable what written
2. Yes, it's visible
3. Yes, on click of exit button application exit and on click of start it shows pair screen
4. Yes, it's okay



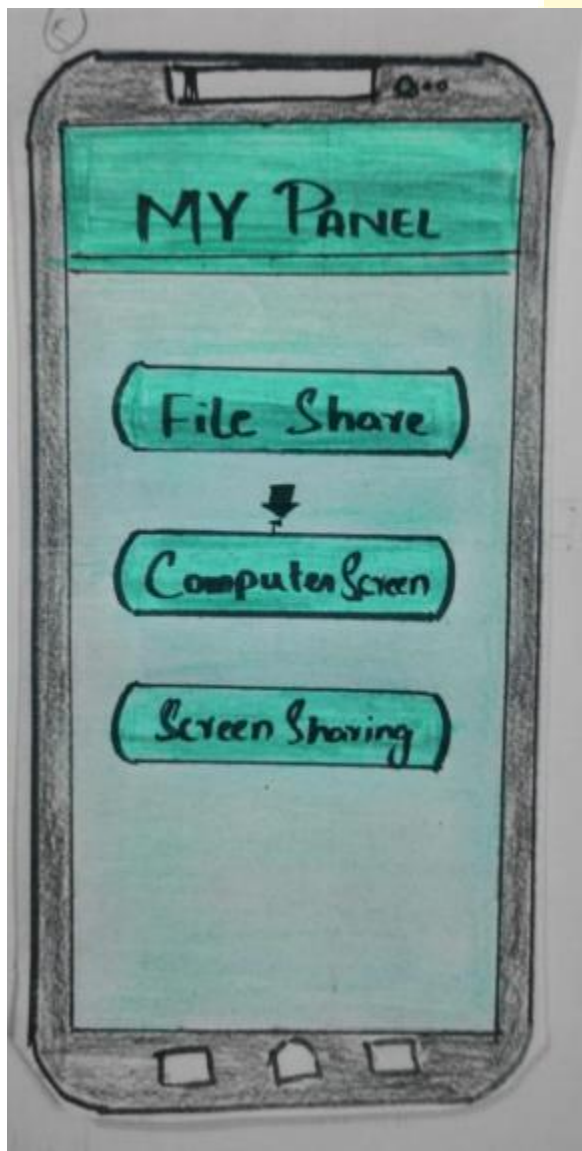
1. Yes, understandable what written because it's in english
2. Yes, logo, label and textboxes are visible
3. Yes, login and exit button are working
4. Yes, working smoothly



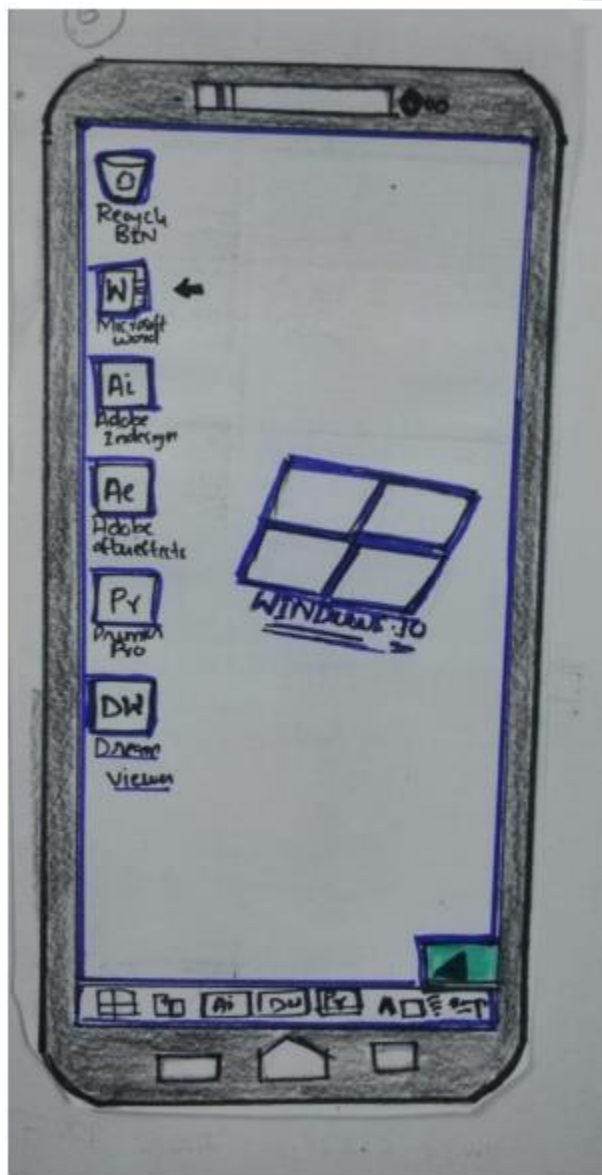
1. Yes, understandable
2. Yes, Screen are visible
3. Yes, every button are in working condition
4. Yes, seems fine



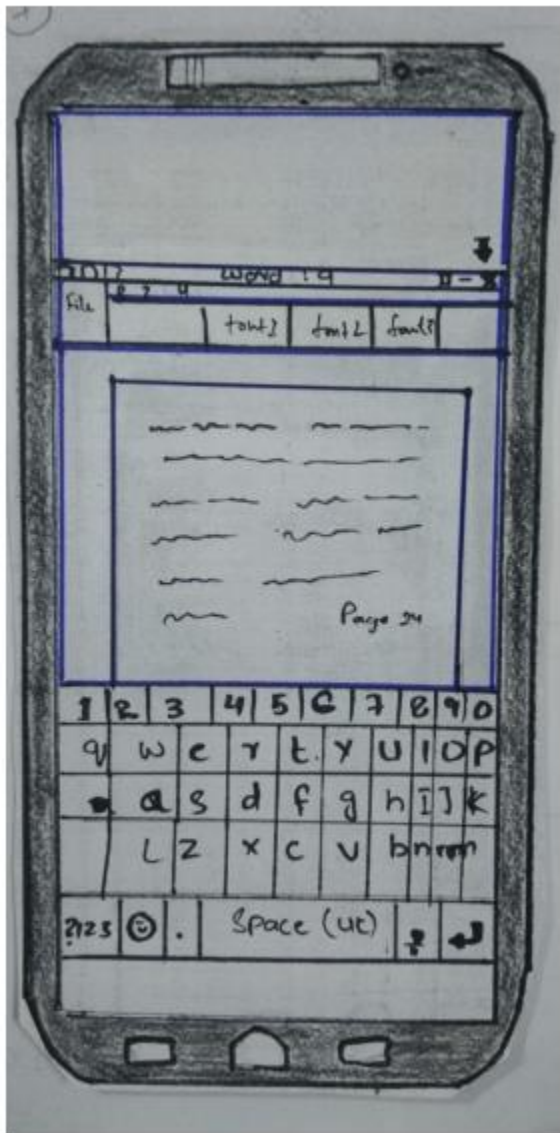
1. Yes, understandable by button label about action
2. Yes, screen are clear visible
3. Yes, Button performing action
4. Yes, landscape option is amazing



1. Yes, My panel is understandable
2. Yes, it's visible
3. Yes, all options are working
4. Yes, button color needs to change



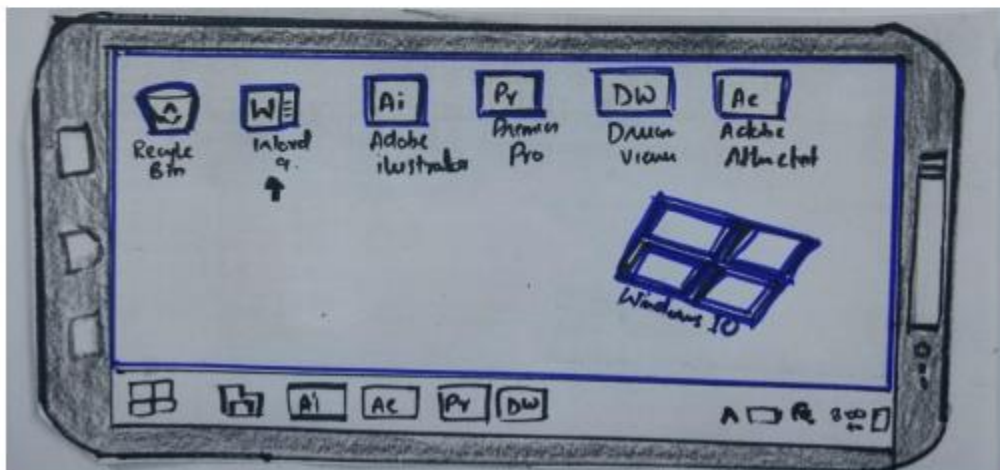
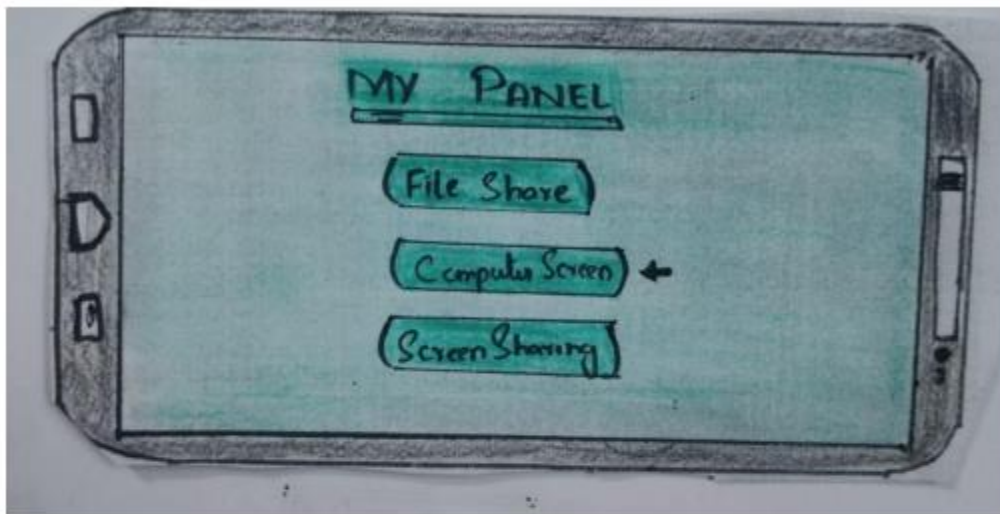
1. Yes, understandable
2. Yes, it's visible
3. Yes, mouse dragging working by touching phone touch panel
4. Yes, in tablet it's more visible



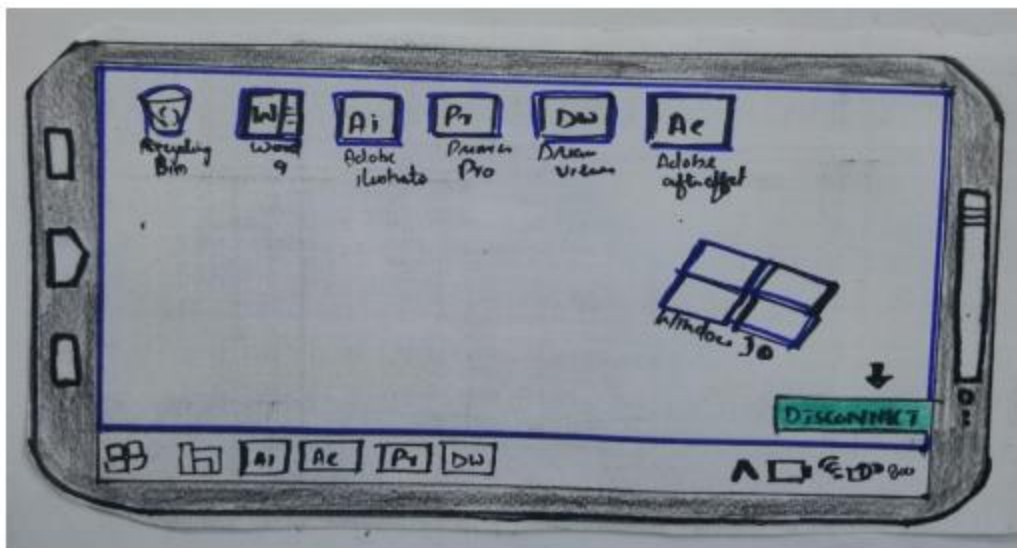
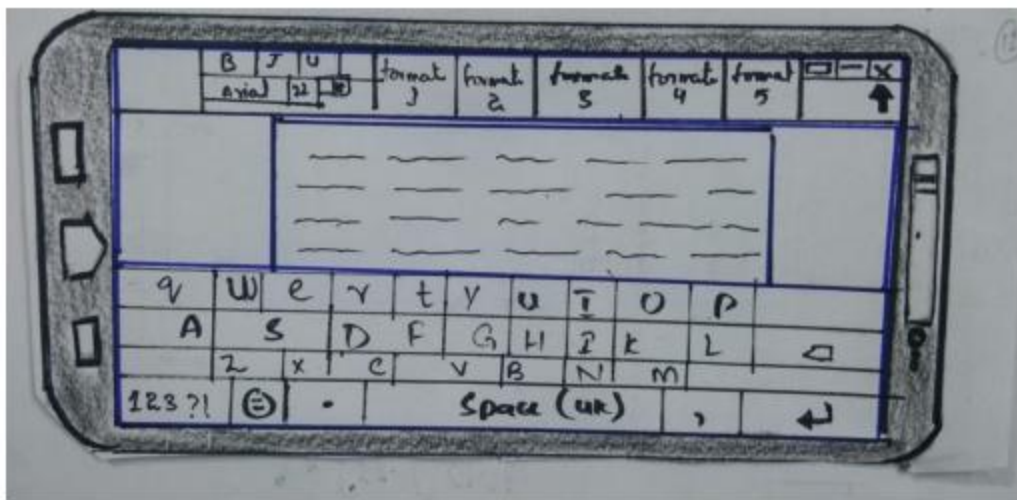
1. Yes, understandable
2. Yes, it's visible what written in dox file
3. Yes, all keyword keys are functional
4. Yes, working amazing

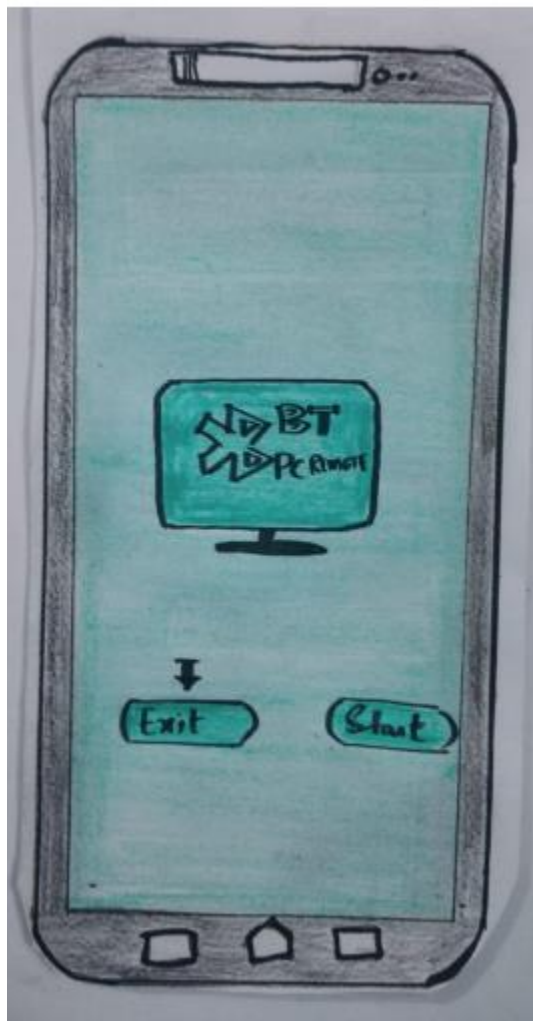
AF
ET

1. Yes, potriate view is understanadable
2. Yes, View is visible
3. Yes, functions are working
4. Yes, it's okay



1. Yes, understandable
2. Yes, it's visible what written in dox file
3. Yes, all keyword keys are functional
4. Yes, working amazing





1. Yes, understandable
2. Yes, it's visible
3. Yes, on click of exit button application exit
4. Yes, it's okay