# Lab 5 – Sketching, Scenarios and Storyboarding

# Part 1: Ideation/Generate design ideas

## **Features from Affinity Diagram:**

List the problems/categories you identified from the AD – and list potential suggestions and feature descriptions (you should have 6-8 potential features as a starting point)

Problem\Theme from AD	Suggestion/s	New or improved feature	
NAVIGATION SIGNS	Directions and signs on a	Add AR features to show	
	large campus guide students	virtual signs and arrows on	
	easily proving to be an	your phone screen for easy	
	essential tool for navigation.	campus navigation.	
PERSONALIZED APP INTERFACE	Users want an app that	Make the app interface	
	understands them and feel	customizable – change	
	comfortable working with.	themes, adjust text size, and	
		get personalized route	
		suggestions.	
VISUAL AIDS IN NAVIGATION	Seeing visual directions for	Include clear visual maps with	
	navigation when in noisy	simple landmarks and a	
	areas always makes it easier	'simplified map' mode focusing	
	for users with better	on main paths.	
	understandability.		
AUDIO ASSISTANCE IN	Users resort to audio	Create a voice navigation	
NAVIGATION	assistance when they are	system in the app for spoken	
	confused with the visual aids	directions and make it	
	proving to be useful in many	compatible with Siri and	
	cases.	Google Assistant.	
NAVIGATING WITH GOOGLE	Google maps help with	Integrate Google Maps for up-	
MAPS	fastest and shortest route	to-date navigation and route	
	when in unfamiliar areas	suggestions based on your	
		schedule and campus events.	
ACCESSIBLE NAVIGATION FOR	Voice assistance helps BVI	Offer features like audio	
BVI (BLIND AND VISUALLY	users as it is the best	descriptions, tactile feedback,	
IMPAIRED) USERS	approach for them in	and screen reader support for	
	absence of someone's	blind and visually impaired	
	assistance.	users.	

### 10 plus 10 Sketching

Choose 3-4 features (3 for group of 3 and 4 for group of 4) to explore with a revised 10 plus 10 sketching approach (you will do a 10 plus 5 approach). Assign a member to sketch one of the features using this approach. (Attach all drawings in the appendices for this lab).

Before sketching, remember you sketches should reflect different design ideas for the given feature based on the problem that the feature should help solve using the project device. You do NOT have to be an artist to sketch your ideas. They are to be fast sketches to get an idea across.

#### For all Features:

Round 1 (10-12 minutes max)

These 10 sketches should reflect *different* and diverse ideas of what how the feature could look or could be used (could be something useful or playful). The idea is to be **as creative and diverse as possible** (remember don't worry about the feasibility of the ideas).

#### Round 2 (10-12 minutes max)

After you've sketched the first 10 ideas, choose (individually) the most promising direction (in your opinion) and create 5 different variations of that idea and/or refinement of that idea.

#### Round 3 [10-12 minutes max]

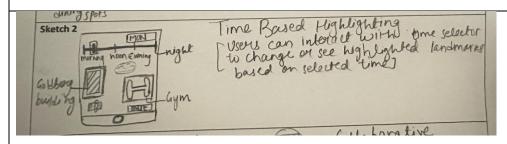
In your groups, each member goes through their 5 sketches from round 2. As a group, select one of the presented 5 ideas to explore first in storyboards (and later as prototypes). Include the image with a couple of points explaining why you decided on it in table below. [note, if the group isn't happy with any sketches, you can re-do the process but have all team members do it for the feature]

#### **Sketch Choices**

## Feature 1 Sketch Choice - Time Based Highlighting (Personalized Landmark Highlighting)

#### Reasons for selecting this sketch for Feature 1:

We chose time-based highlighting because it offers users real-time information about nearby study spots, aligning with their immediate needs and schedules. This feature optimizes user time management, helping them make the most efficient use of their study sessions and enhancing their overall productivity on campus.



# Feature 2 Sketch Choice - Finding new landmarks

### Reasons for selecting this sketch for Feature 2:

We chose this sketch as students are often not aware of the wide range of facilities their university campus offers. This variant helps them know about the locations they have not been to and are unaware of, thus helping them make full use of the facilities and amenities provided by the university.

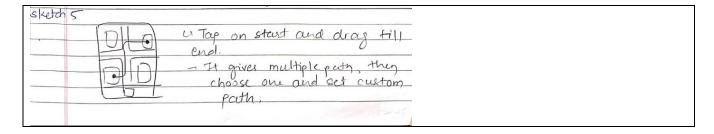


### **Feature 3 Sketch Choice**

## Reasons for selecting this sketch for Feature 3:

We opted for the tap to navigate feature because it swiftly confirms routes and ensures Abby's timely arrival at her destination, demonstrating the app's proficiency in facilitating campus navigation. It effectively assists users in navigating around campus with ease.

### [selected sketch]



<sup>\*\*</sup>The group of 4 will choose 3 features to move forward with.

## **Part II: Scenarios and Storyboards**

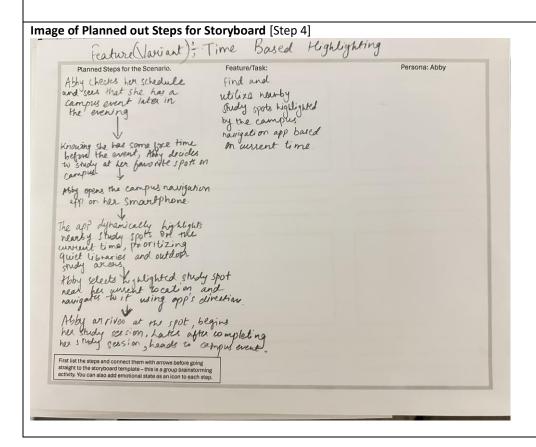
Using the 3 designs from the sketches create the scenarios and storyboards for the features.

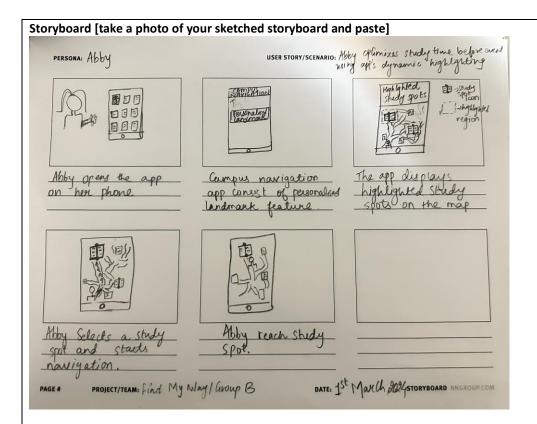
### **Design 1 Scenario**

Scenario: Abby, a 4th-year Mechanical Engineering student, is attending a campus event later in the evening. She wants to make the most of her time before the event by studying at her favorite spots on campus. To ensure she stays productive and organized, Abby utilizes the campus navigation app's time-based highlighting feature. This feature dynamically highlights nearby study spots based on the current time, helping Abby efficiently plan her study sessions before the event.

#### Task for the scenario

Find and utilize nearby study spots highlighted by the campus navigation app based on the current time.





### **Design 2 Scenario**

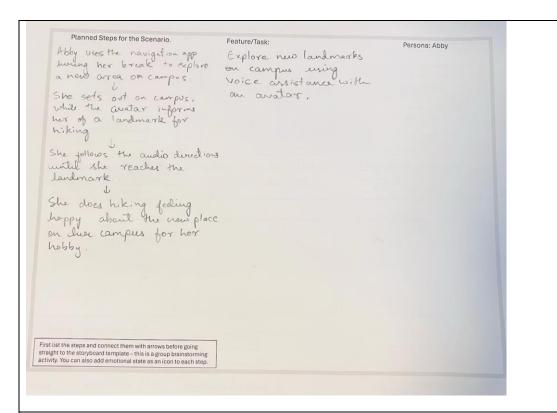
[1-2 paragraphs (remember to include one path only i.e. only one choice for the user like the example of buying movie tickets] Abby is having a break and uses the campus navigation app to explore new areas on campus. She gets a list of places she has not been to on campus. She moves in a direction to a nearby spot where an avatar pops up to inform her of a hiking spot nearby, she has not been to. She gets audio directions for the landmark, and she reaches the hiking spot where she found a place for her hobby.

#### Task for the scenario

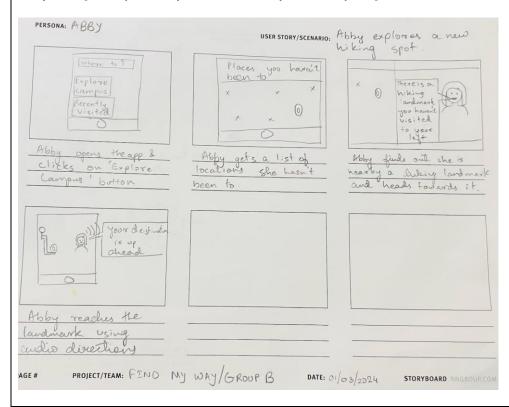
[that you could ask a user to do/expect a user to do with the feature (e.g., like the example with the movie kiosk)] Find new places on campus to explore for different purposes using the application.

### Image of Planned out Steps for Storyboard [Step 4]

[list the steps and connect them with arrows and can also add emotional state as an icon to each step if makes sense – take a photo and include]



## Storyboard [take a photo of your sketched storyboard and paste]



### **Design 3 Scenario**

[1-2 paragraphs (remember to include one path only i.e. only one choice for the user like the example of buying movie tickets] Abby Grey a 4<sup>th</sup> year mechanical engineering student at Dalhousie University, finds herself in a bit of a rush one morning. With her next lecture in an unfamiliar building across campus, Abby feels a mix of nerves and urgency. She's not one to

usually rely on technology for navigation, but today, pressed for time, she decides to use the campus navigation app. Tapping on her location and the classroom's icon, she hopes it will guide her smoothly to her destination.

## Task for the scenario

[that you could ask a user to do/expect a user to do with the feature (e.g., like the example with the movie kiosk)]

To find a lecture hall in the unknown building.

# Image of Planned out Steps for Storyboard [Step 4]

[list the steps and connect them with arrows and can also add emotional state as an icon to each step if makes sense – take a photo and include]

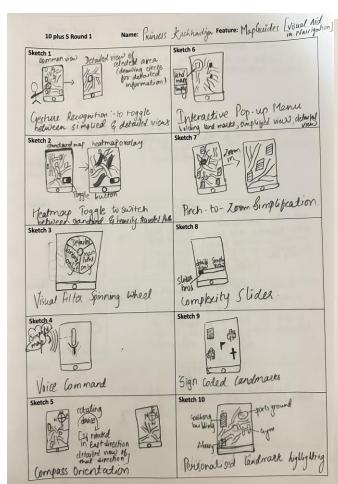
	. (	classmate  Date Page
Planned steps	teaturel	Persona: A
for scenario	feature/ Task	1023014-11
Abby is walking around in the campus	Tap-to-navig	este
around to the campus		
butterng looking for	teature: Navig	ertion
her classroom	feature: Nuvia	n .
	δ	
she opens the		
application		
TITICEATORE	28	
She seaselects		
the building concertly		
she is in.		
L.		
she taps her current		
location and taps for the building icon whe she wants to go		
the building icon whe	re	
she wants to go		
1		
_		
Abby gets the route		
Apply gets the route to the building, she		
reaches there and		
attends the class.		
Control Control		

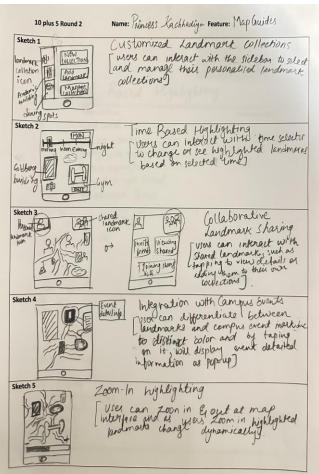
Storyboard [take a photo of your sketched storyboard and paste]

Classmate Data Page Data	
Persona: Abby Uses story Abby is looking for her class around in	
Campused  Campused  Compused  Compus	
Abby opens the It list down all find my way campuses. Abby selects application. hes campus.	
The app displays Abby chooses the start the map aroused and and point of application the campus It shows the rouse	
- Jou've	
Abby reaches the class	

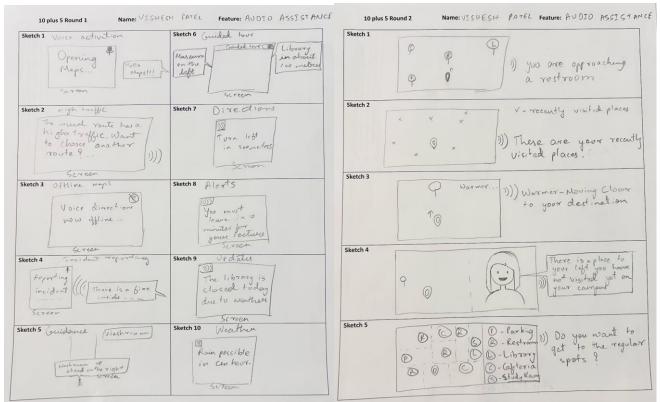
Appendix A: Sketches of Features [attach img/photo of the sketches of the team]

Feature 1 sketches:





## Feature 2 sketches:



# Feature 3 sketches:

