ROUTEWIZ
MINI PROJECT

Presented by Group 17

GROUP MEMBERS:-
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PROJECT GUIDE:-
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Problem Statement

Rajagiri is a huge campus ,and sometimes vistiors and students find it quite difficult to effectively navigate through the college premises.Our website offers a convenient and efficient solution for the same

Applications

1. Routewiz website is an innovative and user-friendly website for navigating indoor spaces witin a campus

2. Particularly helpful for new students or visitors who is unfamiliar with the campus layout.

3. It provides information on accessible routes ,lift and other facilities that cater to individuals with disabilities

4. It also saves time and effort

Related Works

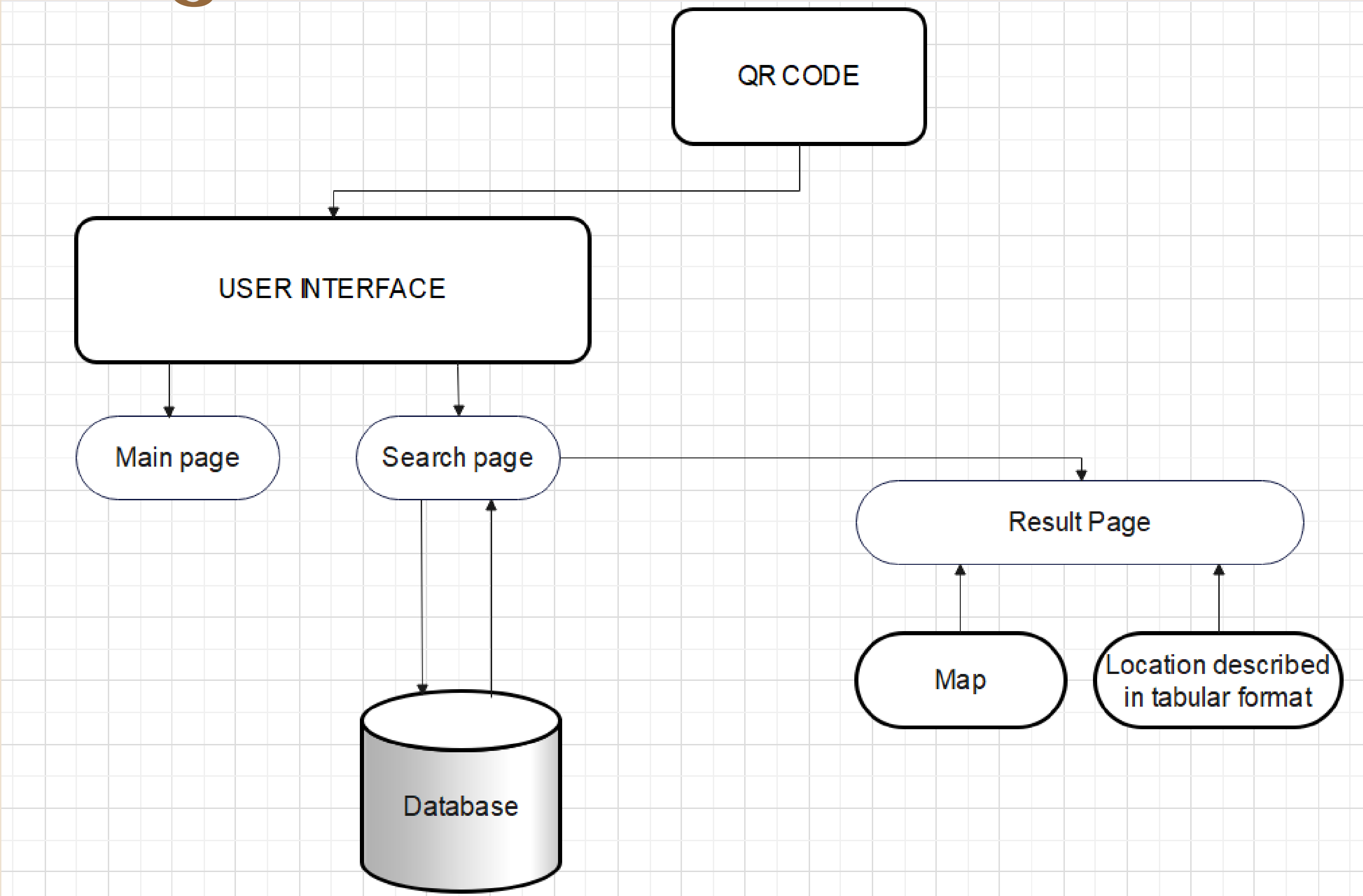| TITLE	DESCRIPTION	LIMITATIONS
Avenza Maps	Mobile mapping app for outdoor enthusiasts.	→ Accuracy & Updates, Map File Sizes, Battery Drain
IndoorAtlas	Indoor positioning and mapping platform using geomagnetic fields and inertial sensors	→ Indoor Coverage and Mapping, Indoor Signal Strength

Block Diagram

Modules

1   **Search Module:**

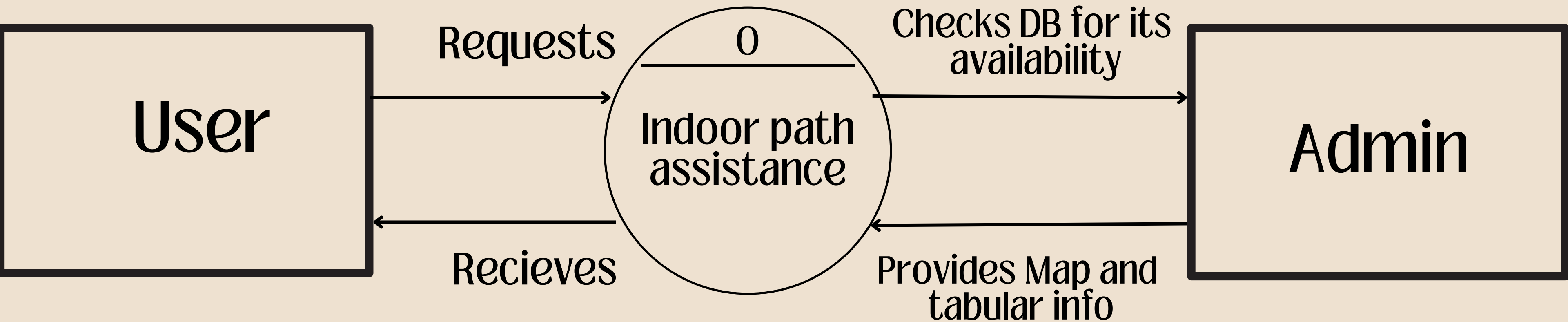**This module handles the functionality of the search page where users can input search criteria and initiate a search.**

3   **Result Display Module:**

This module is responsible for displaying the search results to the user.Additionally, it interfaces with the map display module to incorporate a visual representation of the search results.
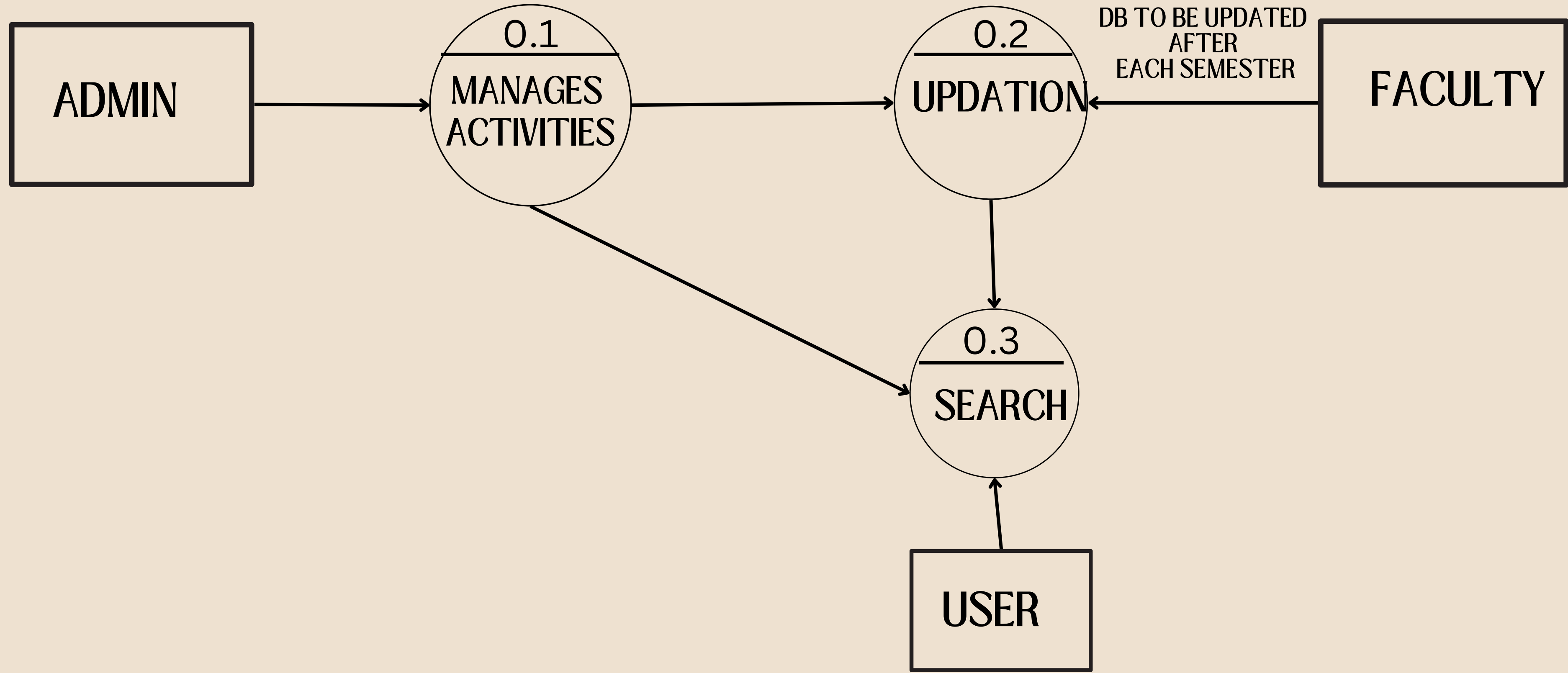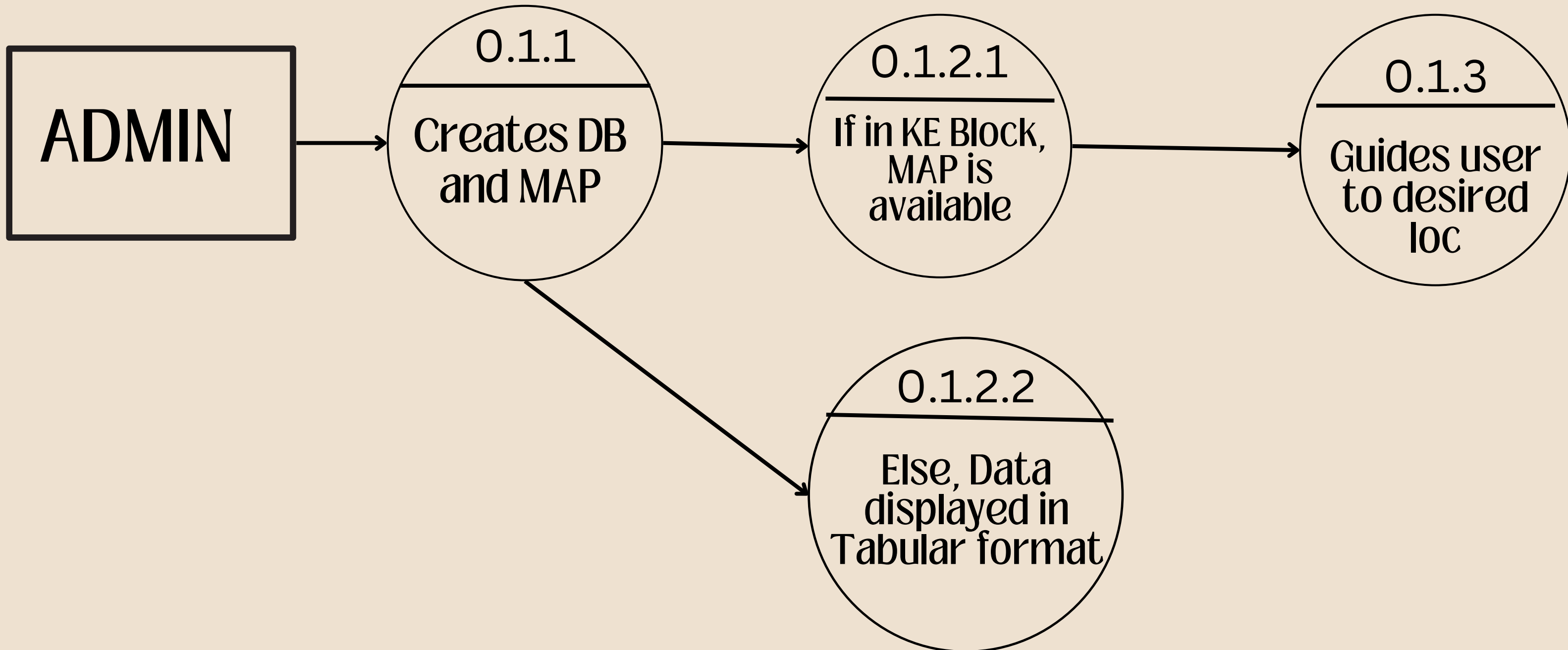
2   **Database Module:**

This module interacts with the database (XAMPP) to manage data storage, retrieval, and updates.

DATA FLOW DIAGRAM

LEVEL 0

User → Requests → (0 Indoor path assistance) → Checks DB for its availability → Admin

Admin → Provides Map and tabular info → (Indoor path assistance) → Recieves → User

DATA FLOW DIAGRAM

LEVEL 1

DATA FLOW DIAGRAM

LEVEL 2

```
ADMIN  →  0.1.1          →  0.1.2.1            →  0.1.3
            Creates DB         If in KE Block,        Guides user
            and MAP            MAP is                 to desired
                              available              loc

                           →  0.1.2.2
                              Else, Data
                              displayed in
                              Tabular format
```

DATA FLOW DIAGRAM

LEVEL 2

FACULTY

0.2.1
Has accsess to DB

0.2.2
Can make changes every semester

DATA FLOW DIAGRAM

LEVEL 2

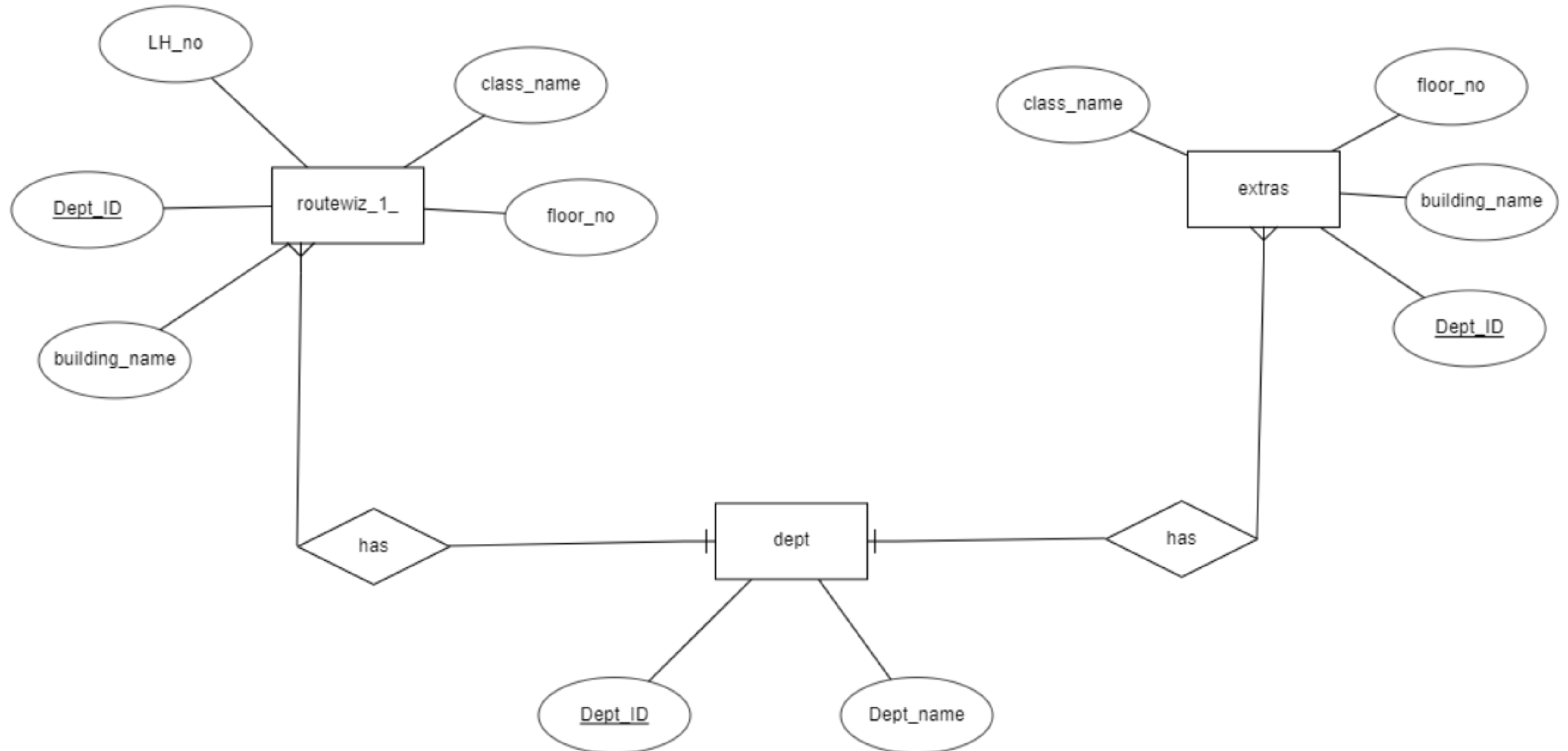USER → 0.3.1 Scans QR code → 0.3.2 Website interface → 0.3.3 Enters destination → 0.3.4 Textual and Map instructions displayed
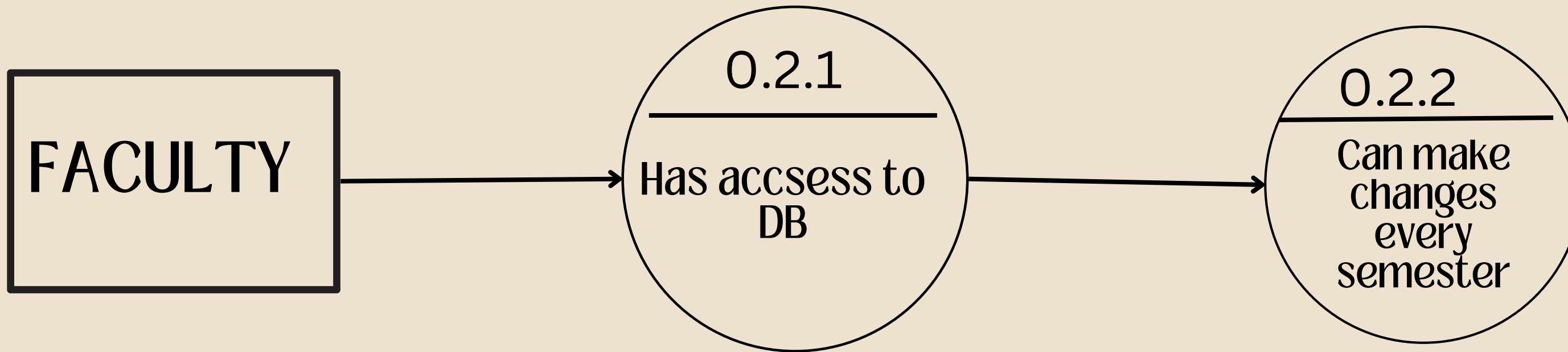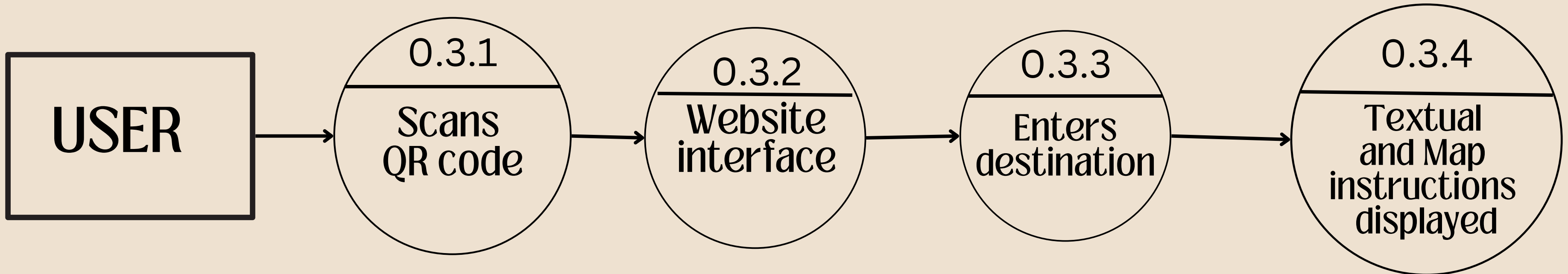
ER DIAGRAM

IMPLEMENTATION DETAILS

FRONT END :-HTML,CSS

IDE :- VISUAL STUDIO CODE

DATABASE CREATION :- XAMPP

DATA FRAMEWORK :-PHP

ANIMATION:- ANIMAKER

DATABASE DESIGN

Database design is done using XAMPP,Sublime text

There are 3 tables :- routewiz_1_, extras, dept

routewiz_1_:- Attributes: {Dept_ID(FK), Lh_no, class_name, floor_no, building_name }

extras:- Attributes: { Dept_ID(FK), class_name, floor_no, building_name }

dept:- Attributes: { Dept_ID(PK), Dept_name }

SAMPLE WORK

Database:-

Table ▲	Action						Rows	Type	Collation	Size	Overhead
☐ **dept**	⭐	🟦 Browse	🔧 Structure	🔍 Search	⊞ Insert	🗑 Empty	⊖ Drop	8	InnoDB	utf8_general_ci	16.0 KiB	-
☐ **extras**	⭐	🟦 Browse	🔧 Structure	🔍 Search	⊞ Insert	🗑 Empty	⊖ Drop	112	InnoDB	utf8_general_ci	16.0 KiB	-
☐ **routewiz__1_**	⭐	🟦 Browse	🔧 Structure	🔍 Search	⊞ Insert	🗑 Empty	⊖ Drop	55	InnoDB	utf8_general_ci	16.0 KiB	-

Dept table

deptID	dept_name
D001	IT
D002	CS
D003	CIVIL
D004	MECHANICAL
D005	APPLIED
D006	EEE
D007	EC
D008	MISCELLANEOUS

Extras table

class_name	building_name	floor_no ▲ 1	deptID
Metalurgical Testing Lab	KE BLOCK	1st floor	D008
Language Lab	KE BLOCK	1st floor	D008
Computer Application Lab	KE BLOCK	1st floor	D008
Mechanical Measurements Lab(ME)	KE BLOCK	1st floor	D004
CAD/CAM Lab(ME)	KE BLOCK	1st floor	D004
CNC Room(ME)	KE BLOCK	1st floor	D004
Advanced Machine Tools Lab(ME)	KE BLOCK	1st floor	D004
Machine Tools Lab(ME)	KE BLOCK	1st floor	D004
Mechanical Workshop(ME)	KE BLOCK	1st floor	D004
Transportation Lab(CE)	KE BLOCK	1st floor	D003
Environmental Lab(CE)	KE BLOCK	1st floor	D003
Mechanical Systems Lab(ME)	KE BLOCK	1st floor	D004
ULYSSES LAB	MAIN BUILDING	1st floor	D008
BOHR LAB	MAIN BUILDING	1st floor	D008
STAFFROOM 4 (CS)	MAIN BUILDING	1st floor	D002
HEISENBERG LAB	MAIN BUILDING	1st floor	D008
PHOTON LAB	MAIN BUILDING	1st floor	D008

Routewiz table

deptID	LH_no	class_name	floor_no	building_name
D006	LH 4	S8 EE	2nd floor	KE BLOCK
D006	LH 5	S6 EE	2nd floor	KE BLOCK
D006	LH 6	S4 EE	2nd floor	KE BLOCK
D002	LH 5	S4 CS(BETA)	1st floor	MAIN BUILDING
D002	LH 4	S4 CS(ALPHA)	1st floor	MAIN BUILDING
D002	LH 6	S4 CS(GAMMA)	1st floor	MAIN BUILDING
D002	LH 2	S8 CS(BETA)	1st floor	MAIN BUILDING
D002	LH 1	S8 CS(ALPHA)	1st floor	MAIN BUILDING
D002	LH 3	S8 CS(GAMMA)	1st floor	MAIN BUILDING
D002	LH 7	S6 CS(ALPHA)	1st floor	MAIN BUILDING
D002	LH 8	S6 CS(BETA)	1st floor	MAIN BUILDING
D002	LH 9	S6 CS(GAMMA)	1st floor	MAIN BUILDING
D001	LH 25	S2 CSBS	3rd floor	MAIN BUILDING
D004	LH 26	S2 MECH(ALPHA)	3rd floor	MAIN BUILDING

QR CODE

RouteWIZ

Let's Go!

About us

Rajagiri is a huge campus ,and sometimes vistiors and students find it quite difficult to effectively navigate through the college premises. RouteWIZ offers a convenient and efficient solution for the same.

DESTINATION

DESTINATION

Enter LH 5 / S4 IT format | **SEARCH**

ENTERED VALUE	CLASS NAME	BUILDING NAME	FLOOR NO	MAP
LH 9	S6 CS(GAMMA)	MAIN BUILDING	1st floor	No video available for Main Building.
LH 9	S6 MECH(ALPHA)	KE BLOCK	3rd floor	

PROJECT SCHEDULE

TASK (WEEK)	ASSIGNED TO	1	2	3	4	5	6	7	8	9	10
Project initiations	Elsa,Aishwarya,Roya		100%								
Requirements Gathering	Elsa,Aishwarya,Roya			100%							
Design and Wireframing	Elsa,Aishwarya,Roya				100%						
Front-end Development	Elsa					100%					
Back-end Development	Aishwarya,Roya			100%							
Testing and QA	Elsa,Aishwarya,Roya				100%						
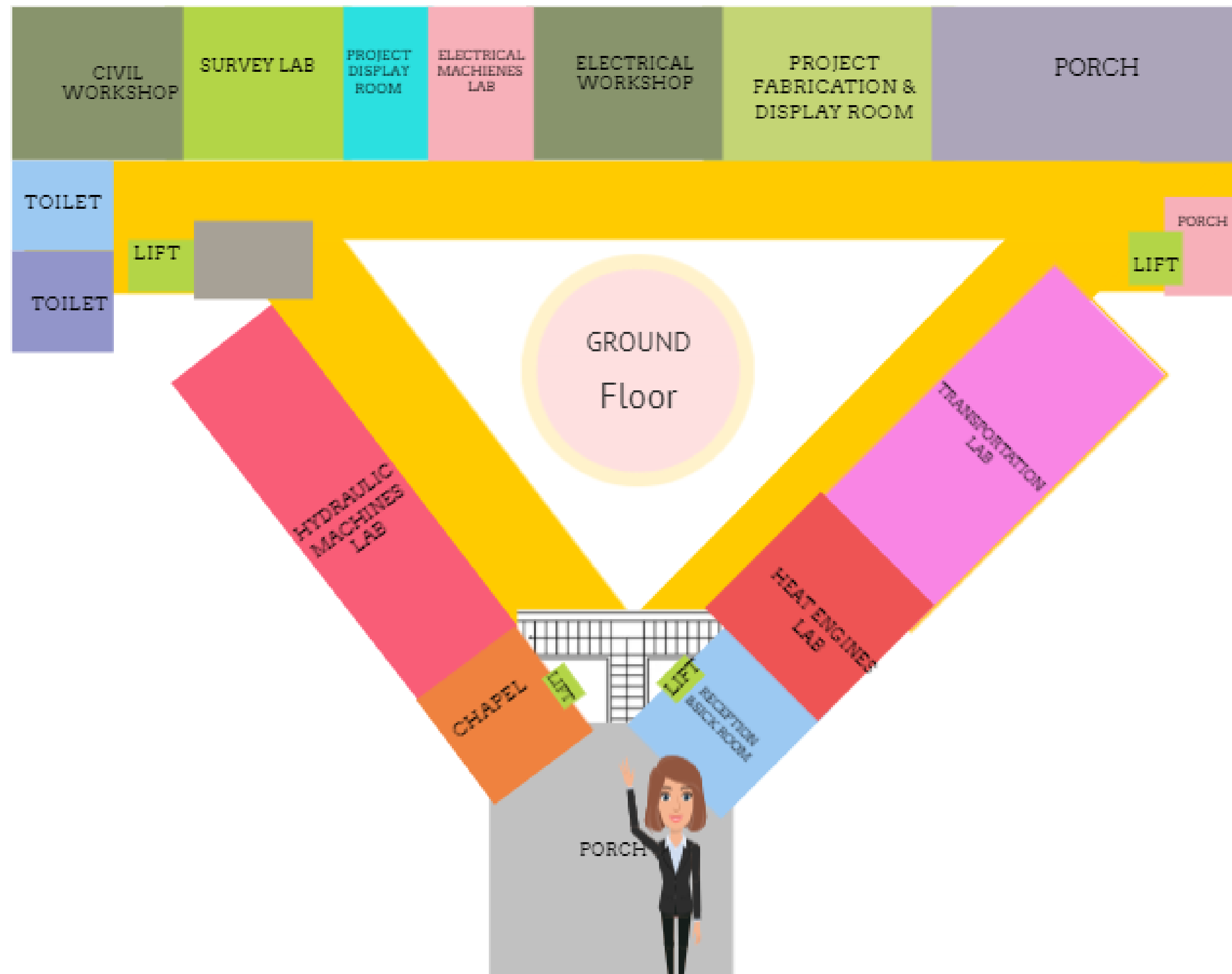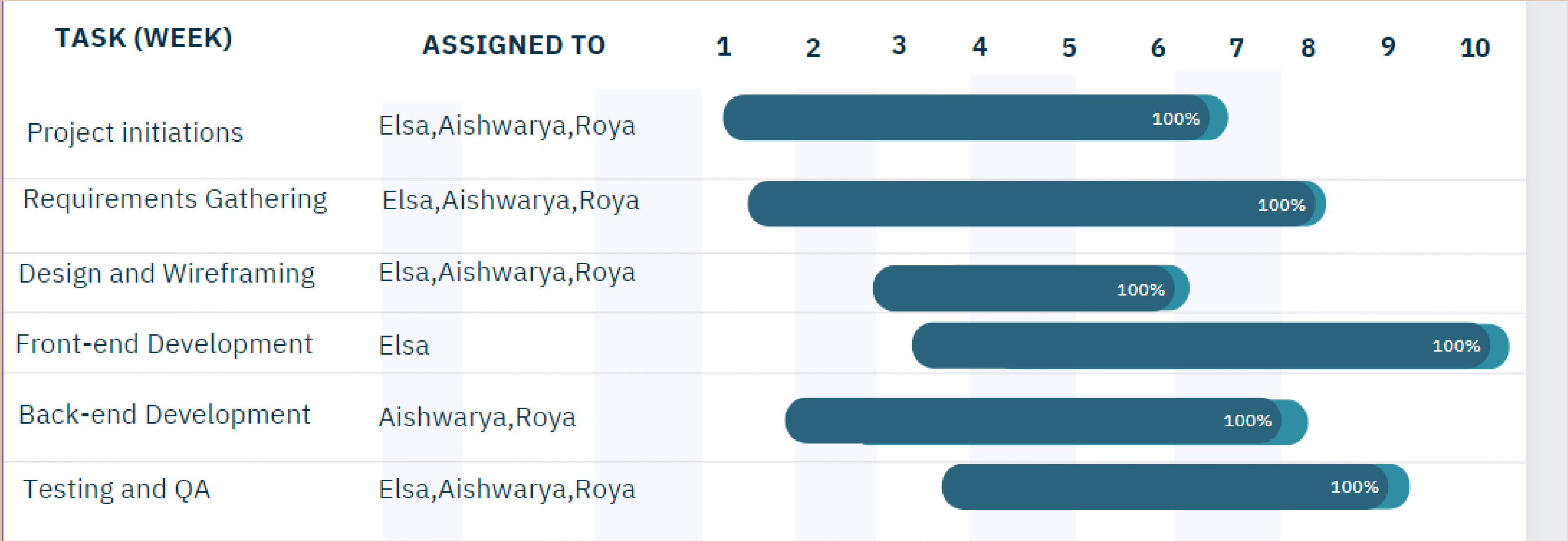
Conclusion

Routewiz website is an innovative and user-friendly website for navigating indoor spaces within a campus.It is particularly helpful for new students or visitors who are unfamiliar with the campus layout

THANK YOU