



The Hashemite University, Zarqa, Jordan
Faculty of Prince Al-Hussein Bin Abdullah II for Information
Technology
Computer Information Systems Department



**A project submitted
In partial fulfillment of the requirements for the
B.Sc. Degree in Business Information Technology**

By

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1/2023

CERTIFICATE

It is hereby certified that the project titled <**Business Gate**>, submitted by

Ahmad Shaaban (1832763), **Yazan Mabrouk** (1830623), **Saif-Addeen Aqel** (1836168), **Amal Assaf** (1932167) and in partial fulfillment of the award of the degree of “bachelor’s in business information technology” embodies original work done by them under my supervision.

All the analysis, design and system development have been accomplished by the undersigned. Moreover, this project has not been submitted to any other college or university.

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Signature

ABSTRACT

In this project, we develop a mobile application for creating customized business cards and connecting job seekers with employers. The main objective is to facilitate all those difficulties job seekers face while searching for a new job and minimize all the paperwork employers need in a small business card.

ACKNOWLEDGEMENTS

This project has been an amazing ride, and it would not have been possible without the combined efforts and hard work of everyone involved in this project, and for that, we are thankful. And a special thanks to our creative supervisors Dr. Emad Abdallah and Dr. Majdi Maabreh for their amazing energy and all of their guidance and advice throughout the project. This project has been an amazing learning experience, and we would not have had it any other way.

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CHAPTER 1: INTRODUCTION

1.1 Overview

This project is to create an application specialized in making personal business cards and opening a gateway between employers and job seekers using Flutter. Flutter is an open-source UI software development kit created by Google. It is used to develop cross-platform Applications.

1.2 Project Motivation

During my educational journey at the university, I was searching for several jobs. Through my experience, I carried a lot of paperwork while bouncing between stores. I thought it would be more convenient if I carried a single card that could replace all the paperwork to facilitate the job-seeking process.

1.3 Problem Statement

Job searching is a very important process that everyone goes through, and there are several problems that make it difficult.

- Job seekers carry a lot of paperwork (CVs, Certificates, Governmental documents).
- Job seekers move a lot between stores and companies.
- Employers face difficulties reaching employees.
- Employment companies pay a lot of money for advertising to find appropriate candidates.

1.4 Project Aim and Objectives

Our application solves the previous problems by helping job seekers and employers by:

- Collecting all the paperwork needed in a single business card.
- Creating a Hub that contains all job announcements for job seekers to reduce time and effort.

1.5 Project Limitations

- People may have a hard time reaching our application.
- Not all business owners are familiar with QR code technology.
- Competition with more popular platforms.
- Older people may have a problem using new technology.

1.6 Project Expected Output

An application that generates business cards containing the job seeker's contact info and QR code containing all their paperwork.

1.7 Project Schedule

Business Gate
Read-only view, generated on 30 May 2022

 Instagantt

ACTIVITIES	ASSIGNEE	EH	START	DUET	%	19	W40	Oct 22	W43	W44	V	Nov 22	47	W48	W49	Dec 22	W52	W1	Jan 23	W4	W5	Feb 23			
						26	Oct 03	Oct 10	Oct 17	Oct 24	Oct 31	Nov 07	Nov 14	Nov 21	Nov 28	Dec 05	Dec 12	Dec 19	Dec 26	Jan 02	Jan 09	Jan 16	Jan 23	Jan 30	Feb 06
Development:		-	30/Sep	13/Jan	0%																				
1  Database	Ah, As, Sa, Ya	-	30/Sep	30/Sep	0%																				
2  Splash-SignUp-Login	Ah, Sa, Ya, As	-	07/Oct	07/Oct	0%																				
3  HomeScreen	Ah, As, Sa, Ya	-	14/Oct	14/Oct	0%																				
4  TemplatesPage	Ya, As, Ah, Sa	-	21/Oct	21/Oct	0%																				
5  CreateTemplate1	Ah, As, Sa, Ya	-	28/Oct	28/Oct	0%																				
6  CreateTemplate2	Ah, As, Sa, Ya	-	04/Nov	04/Nov	0%																				
7  Chat	Ah, As, Sa, Ya	-	11/Nov	11/Nov	0%																				
8  CreatePost	Ah, As, Sa, Ya	-	18/Nov	18/Nov	0%																				
9  PostDetails	Assaff	-	25/Nov	25/Nov	0%																				
10  MyTemplatesPage	Ahmad	-	25/Nov	25/Nov	0%																				
11  ApplicantsPage	Saif	-	25/Nov	25/Nov	0%																				
12  JobsAndMyJobPages	Yazan	-	25/Nov	25/Nov	0%																				
13  HelpPage	Assaff	-	02/Dec	02/Dec	0%																				
14  ProfilePage	Saif	-	02/Dec	02/Dec	0%																				
15  AboutPage	Yazan	-	02/Dec	02/Dec	0%																				
16  NotificationsPage	Ahmad	-	02/Dec	02/Dec	0%																				
17  FeedbackPage	Assaff	-	09/Dec	09/Dec	0%																				
18  ReportUserAndPost	Ahmad	-	09/Dec	09/Dec	0%																				
19  accountPage	Yazan	-	09/Dec	09/Dec	0%																				
20  Web1	Saif	-	09/Dec	09/Dec	0%																				
21  Payment	Ah, As, Ya	-	16/Dec	16/Dec	0%																				
22  web2	Saif	-	16/Dec	16/Dec	0%																				
23  EditProfile	Saif	-	23/Dec	23/Dec	0%																				
24  EditPost	Yazan	-	23/Dec	23/Dec	0%																				
25  EditBusinessCard	Ahmad	-	23/Dec	23/Dec	0%																				
26  BusinessCardDetails	Assaff	-	23/Dec	23/Dec	0%																				
27  AdminHome	Yazan	-	30/Dec	30/Dec	0%																				
28  ReportsAdmin	Saif	-	06/Jan	06/Jan	0%																				
29 SearchAdmin	Ahmad	-	06/Jan	06/Jan	0%																				
30 FeedbackAdmin	Assaff	-	06/Jan	06/Jan	0%																				
31 StatisticsAdmin	Ya, As, Sa, Ah	-	13/Jan	13/Jan	0%																				
Testing:		-	20/Jan	27/Jan	0%																				
33  BlackbookTesting	Ah, Sa, As, Ya	-	20/Jan	20/Jan	0%																				
34  whitebookTesting	Ah, As, Sa, Ya	-	20/Jan	27/Jan	0%																				
ProjectClose:		-	27/Jan	01/Feb	0%																				
36  Documentation	Ah, As, Sa, Ya	-	27/Jan	30/Jan	0%																				
37  projectDeleviry	Sa, Yo, Ah, As	-	01/Feb	01/Feb	0%																				

CHAPTER 2: LITERATURE REVIEW

2.1 Introduction

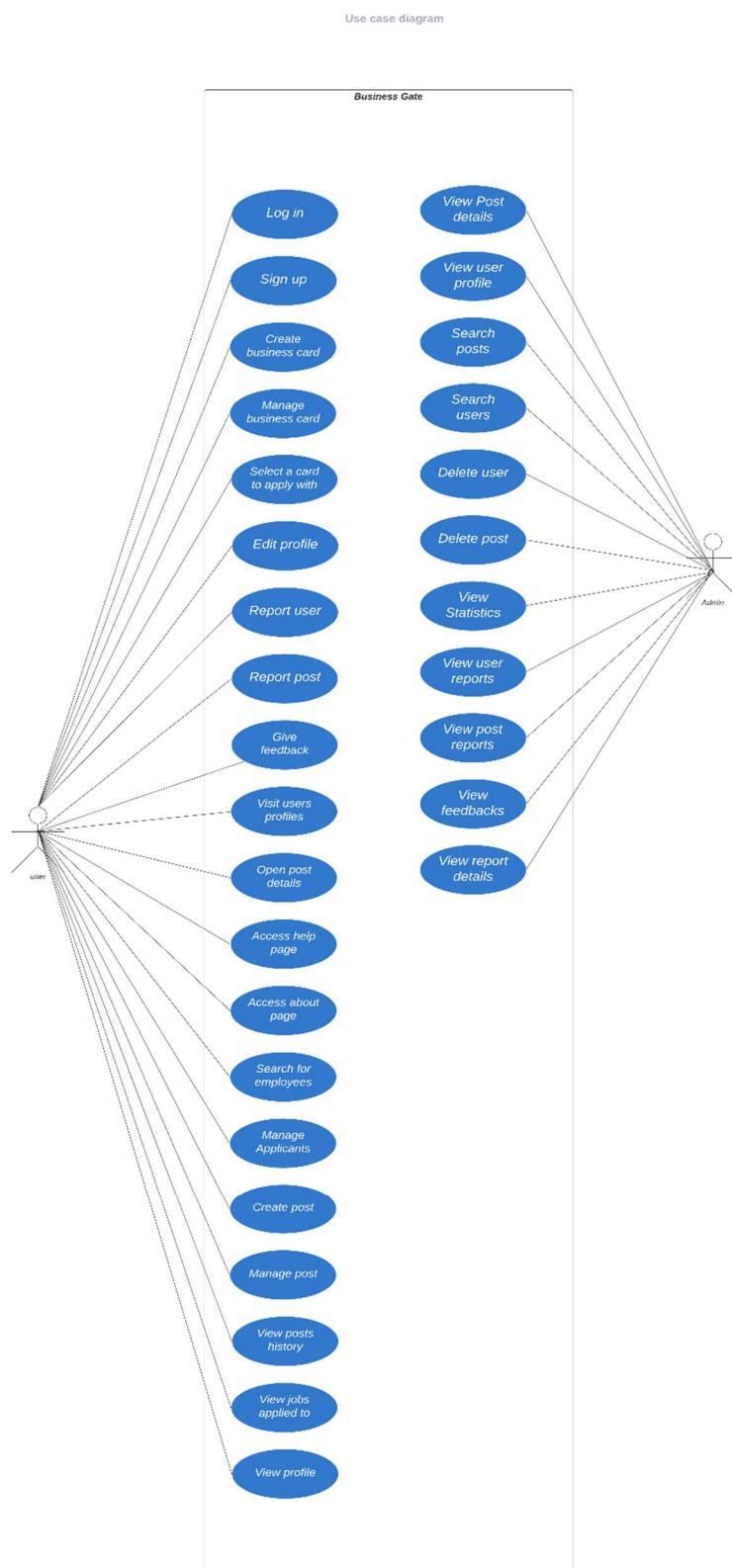
Our application is the first application to integrate the business cards and documents with the job market within the same platform with added constraints and functionalities to create a perfect business environment for our users.

2.2 Existing Systems

1. LinkedIn: A professional networking platform that allows users to create and share profiles, including a personal business card. LinkedIn also offers job search and recruiting features for both job seekers and employers.
2. Indeed: A job search website that allows users to search for and apply to job openings and offers tools for employers to post job openings and search for candidates.
3. Monster: A job search website that allows users to search for and apply to job openings and offers tools for employers to post job openings and search for candidates.
4. Canva: An online graphic design platform that offers a range of templates and tools for creating professional-quality business cards.
5. Vistaprint: An online printing service that offers a range of business card design and printing options, including custom designs and templates.
6. Business Card Maker: A smartphone app that allows users to create and design custom business cards on their mobile device.
7. Zoho Recruit: A recruiting and applicant tracking system designed for small and medium-sized businesses, which includes features for posting job openings, searching for candidates, and managing the hiring process.

CHAPTER 3: REQUIREMENT ANALYSIS

3.2 Figure [1] Use case diagram



3.1 Non-Functional User Requirements

- Usability: the system is easy to use because of its modern design and simplistic colors.
- Security: the system is secure and safe to use all users' information is encrypted and protected.
- Portability: the system shall work on the android platform and can be managed by several different devices.
- Performance: the system is coded with flutter language, giving it high performance and speed rates.

3.2 Functional requirements

1. The system shall allow the user to sign up.
 - 1.1 The user enters his email (essential).
 - 1.2 The user enters his name (essential).
 - 1.3 The user enters his password (essential) and then confirms it. If the passwords do not match, an error appears under the confirm box.
 - 1.4 The user enters his phone number (essential).
 - 1.5 The user enters their Gender (essential).
 - 1.6 The user enters his job title (essential).
 - 1.7 The user enters years of experience.
 - 1.8 The user selects whether he is looking for an employee or a job.
 - 1.9 If essential information is left empty, an error appears under the empty information field.
 - 1.10 The user clicks on the sign-up button to create his account.
2. The system shall allow the user to sign in.
 - 2.1 The user enters his email and password to log in.
 - 2.2 If the user enters a wrong email or password, an error message pops up.
 - 2.3 The user must click on the sign-in button to log in to his account.
3. The system shall allow the user to create and download templates.
 - 3.1 The system shows the recommended business card templates depending on the user's job title and other templates.
 - 3.2 The user can choose from the available templates.
 - 3.3 The user shall enter their information on the card.

- 3.4 The system shall allow the user to generate a QR code containing all his files.
 - 3.4.1 The user may enter his resume as a PDF.
 - 3.4.2 The user may enter his certificates as a PDF.
 - 3.4.3 The user may enter an mp4 video.
- 3.5 The system forwards the created business card to the “my templates” page.
- 3.6 The user may click on create button to create his business card.
4. The system shall allow the user to apply for a job.
 - 4.1 The user applies to a job by clicking the apply button under the post.
 - 4.2 The user chooses the business card he wants to apply with.
 - 4.3 The system saves the job post inside the user’s jobs screen.
- 4.4 The system forwards the user who applied for a job to the post owner applicants page.
- 4.5 The system sends a notification to the user once someone applies to the post.
5. The system shall allow the user to view applicants.
 - 5.1 The user may accept the applicant; a notification will be sent to the applicant if he gets accepted.
 - 5.2 The user may click on accept to accept the applicant.
 - 5.3 The user may view the applicant’s business card.
6. The system shall allow the user to edit his profile.
 - 6.1 The user can change his profile picture.
 - 6.2 The user can change his email address.
 - 6.3 The user can change his name.
 - 6.4 The user can change his phone number.
 - 6.5 The user can change his job title.
 - 6.6 The user can select a business card showcased on his profile.
 - 6.7 The user may click on the save changes button to edit his profile information.
7. The system shall allow the user to report other users and posts.
 - 7.1 The user must choose a reason for the report (Hate speech, spam, fraud or scam, fake account, something else).
 - 7.2 The user may enter further information concerning the report.
 - 7.3 The user submits the report by clicking submit button.
8. The system shall allow the user to give feedback.
 - 8.1 The user may enter his feedback in a text area.

- 8.2 The user may click on the submit button to submit his feedback.
9. The system shall allow users to create a post.
- 9.1 The user has to upload an image to post.
 - 9.2 The user has to enter the job title.
 - 9.3 The user has to enter the department.
 - 9.4 The user has to enter the address.
 - 9.5 The user has to enter the job description.
 - 9.6 The user may enter a caption.
 - 9.7 The user clicks on create button to post the job announcement.
 - 9.8 Once the post is created, it's showcased in the home page and the user's personal posts page.
10. The system shall allow the user to edit his post.
- 10.1 The user may edit the job title.
 - 10.2 The user may edit the department.
 - 10.3 The user may edit the address.
 - 10.4 The user may edit the job description.
 - 10.5 The user may edit a caption.
 - 10.6 The user may change the post image.
 - 10.7 The user clicks the save changes button to update the post.
11. The system shall allow the user to visit other users' profiles.
- 11.1 The user may click on the profile picture of the other user to open his profile.
 - 11.2 The user may click on the other user's business card to view it.
 - 11.2.1 The user may click on the QR code to open his website.
 - 11.2.2 The user may click on the more icon to report a user.
12. The system shall allow the user to open post details.
- 12.1 The user can preview the post details (image, job title, address, description).
 - 12.2 The user may click on the post to see the post details.

13. The system shall allow the user to access the help page.
 - 13.1 The user can preview the application's contact info.
 - 13.2 The user can preview FAQ questions.
14. The system shall allow the user to find employees.
 - 14.1 The user shall select a job title for the employee
 - 14.2 The user shall select the years of experience needed.
 - 14.3 The system shall show all the suggested employees for the user.
 - 14.4 The user may click on the employee to show their info and contact them.
15. The system shall allow the user to access the about page.
 - 15.1 The user may preview information about the application.
16. The system shall allow the users who have access to the QR code to view the user's website.
 - 16.1 The user can click on the resume to review it.
 - 16.2 The user can click on the certificates to view the certificates page.
 - 16.2.1 The user can click on any certificate to view it.
 - 16.3 The user can click on the video to play it.

3.3 Admin Functional Requirements

1. The system shall allow the admin to review post details.
 - 1.1 The admin can preview the post details (image, job title, address, description).
2. The system shall allow the admin to view the user profile.
 - 2.1 The user may click on the profile picture of the other user to open his profile.
 - 2.2 The user may click on the other user's business card to view it.
 - 2.3 The user may click on the QR code to open his website.
3. The system shall allow the admin to search for posts.
 - 3.1 The admin may click on the search field and then enter the post id.
 - 3.2 The admin may delete the post by clicking on the delete button.
 - 3.3 The admin may click on the post to see the post details.
4. The system shall allow the admin to search for users.

- 4.1 The admin may click on the search field and enter the user id.
- 4.2 The admin may delete the user account by clicking on the delete button.
- 4.3 The admin may click on the user to see the user profile.
5. The system shall allow the admin to view statistics.
 - 5.1 The admin may view the statistics of the current month and the overall statistics.
6. The system shall allow the admin to view user reports.
 - 6.1 The admin can see the report type and date.
 - 6.2 The admin can click on the reporter image to view the reporter's profile.
 - 6.3 The admin can click on the reported username to view their profile.
7. The system shall allow the admin to view feedback.
 - 7.1 The admin can view the reporter's name.
 - 7.2 The admin can click on the report to view its details.
8. The system shall allow the admin to view the post report.
 - 8.1 The admin can view the reporter's name and the reported post image.
 - 8.2 The admin can click on the reporter's image to view their profile.
 - 8.3 The admin can click on the post image to view the reported post.
9. The system shall allow the admin to view report details.
 - 9.1 The admin can view the reporter's image and name.
 - 9.2 The admin can view the report details.
 - 9.3 The admin can click on the reporter's image or username to view their profile.

CHAPTER 4: ARCHITECTURE AND DESIGN

4.1 Software (System) Architecture

The edit profile for customer:

When the user clicks edit button, the **editProfile()** method is invoked that changes the username, profile image and showcased BC.

Post for customer:

The customer can click on the create post button, **createPost()** method is invoked that allows the user to create their post.

Edit post for customer:

When the user clicks on the edit post button, **editPost()** method is invoked that allows the user to change the post information.

Business card for user:

When the user clicks on the download button, **download()** method is invoked that the user can download their own BC to their device.

4.2 Software design

4.2.1 UML sequence/communication diagram

Figure [2] User sign up sequence diagram

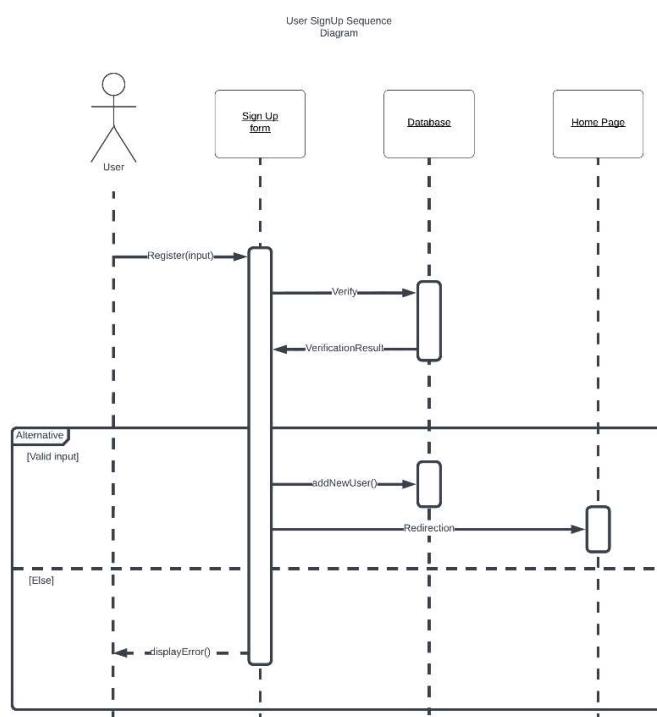


Figure [3] User Login sequence diagram

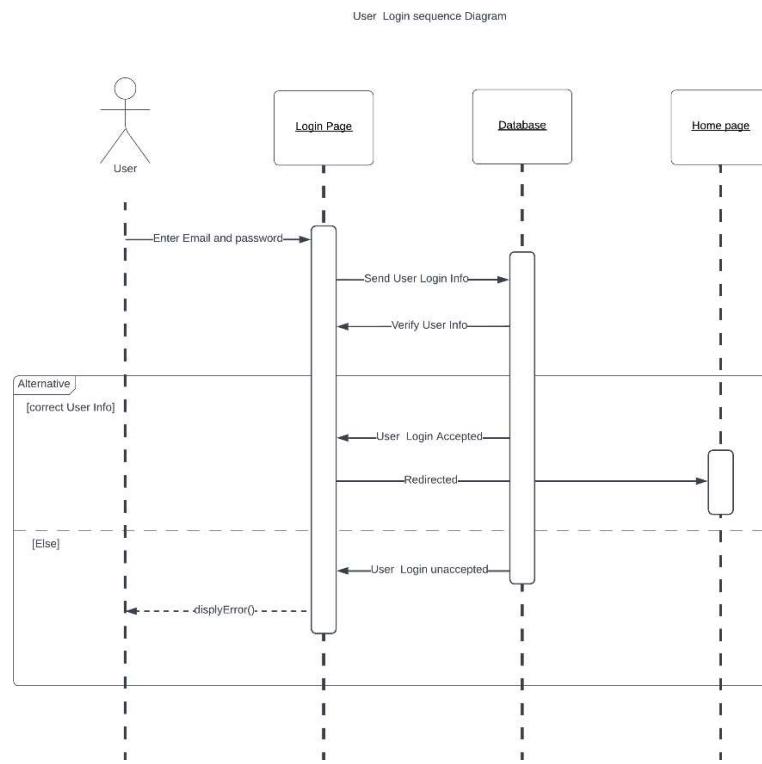


Figure [4] Job application sequence diagram

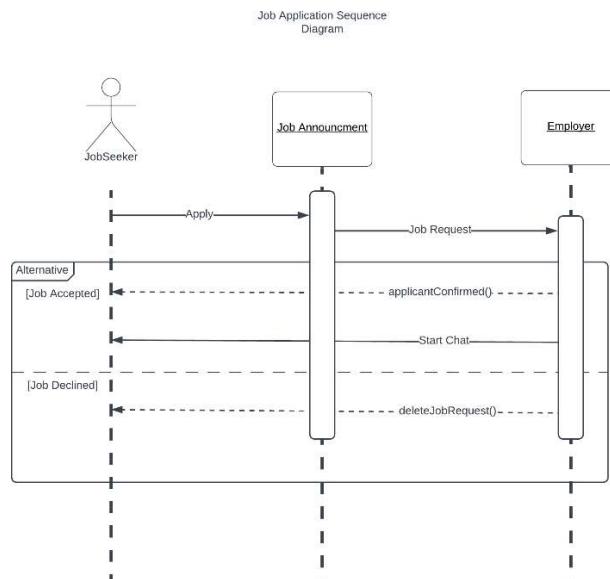
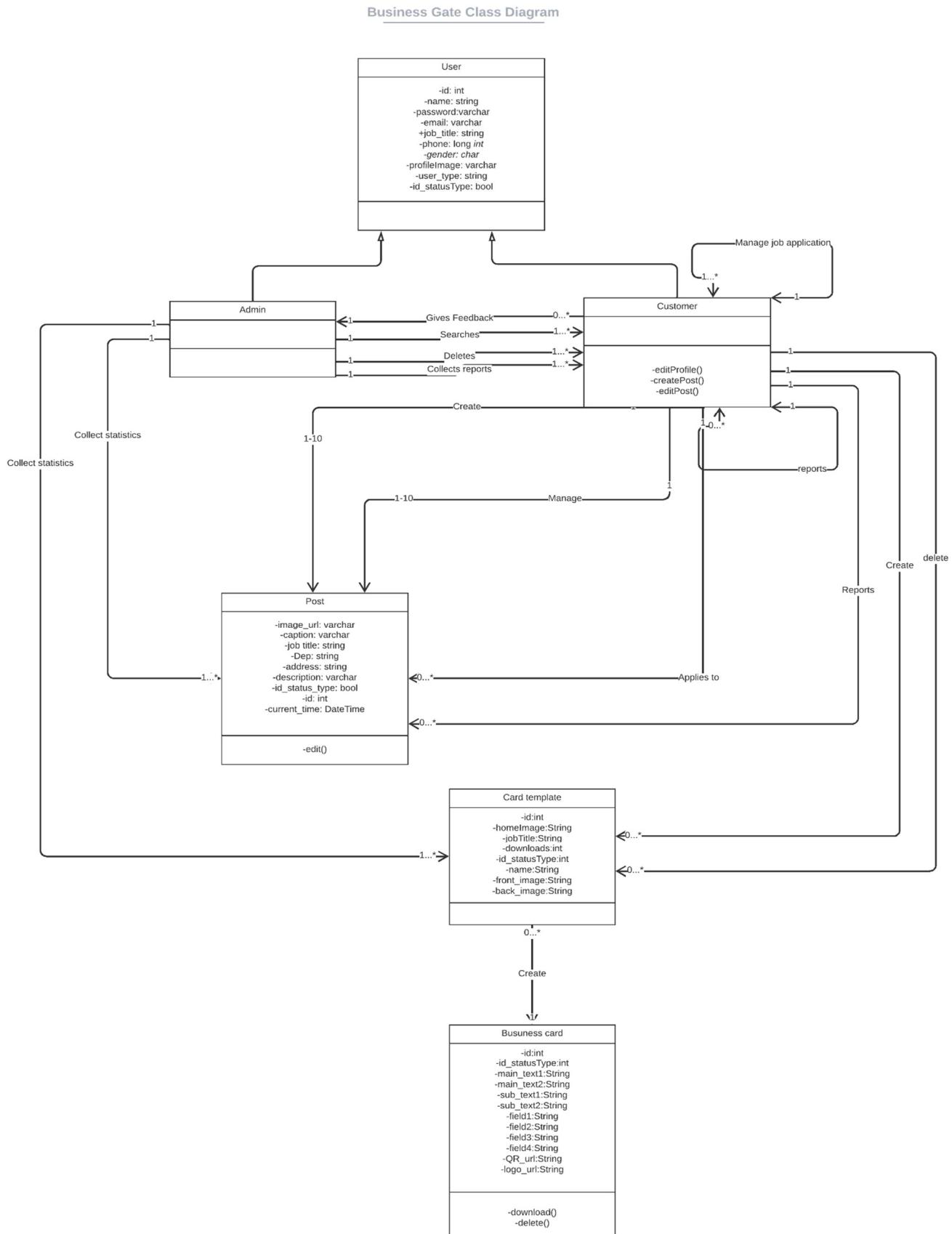
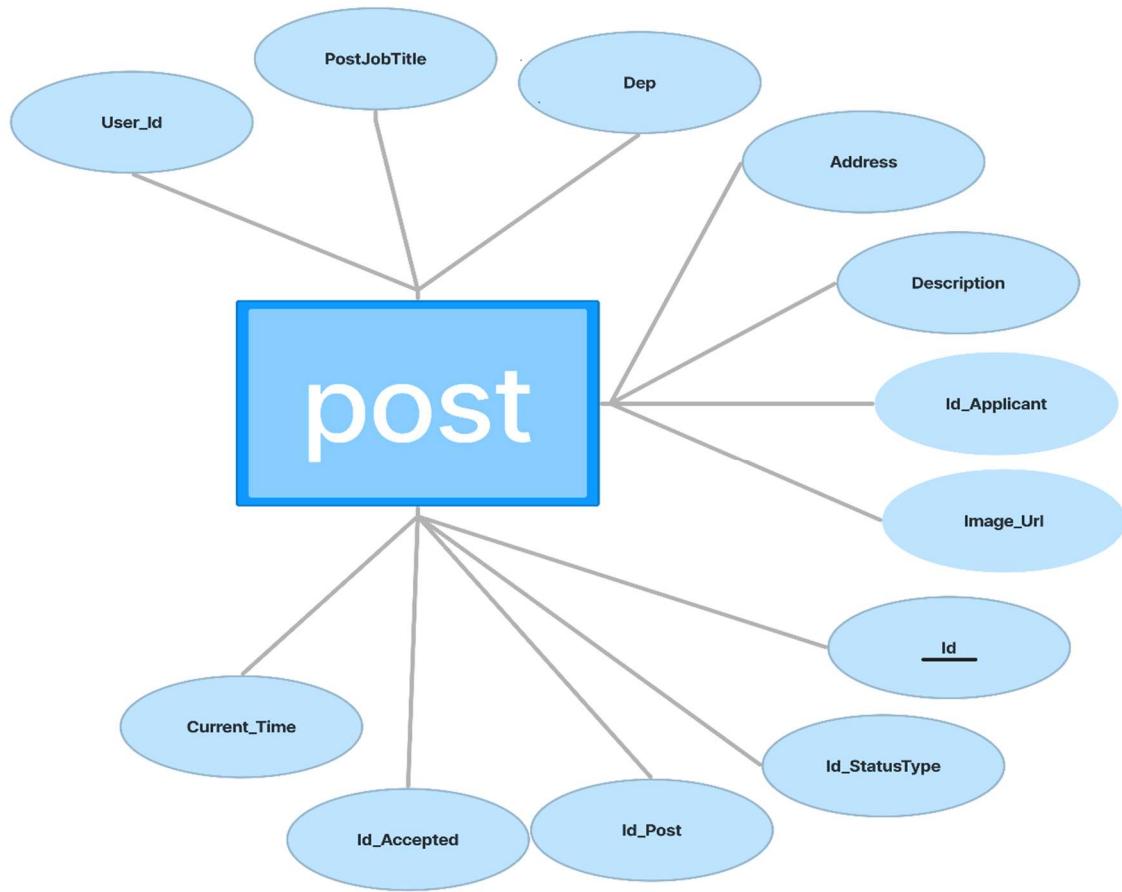


Figure [5] Class diagram

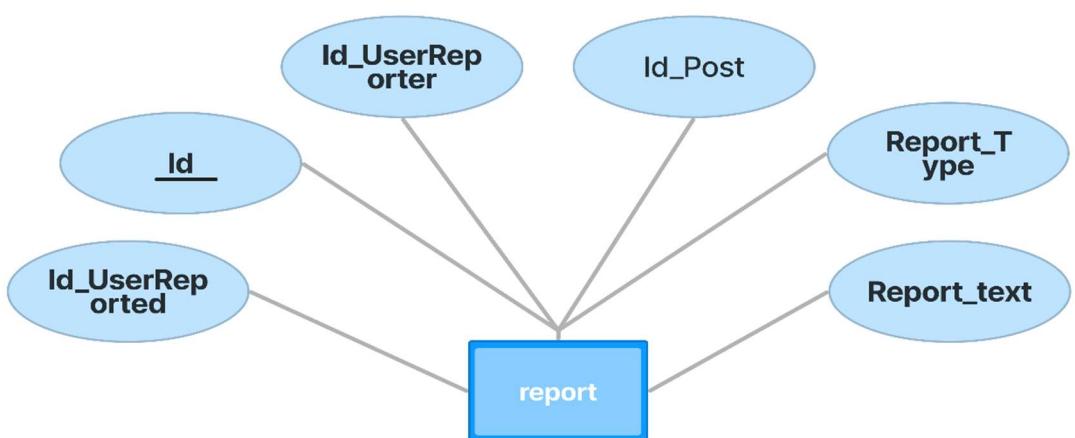


4.2.2 ER diagram

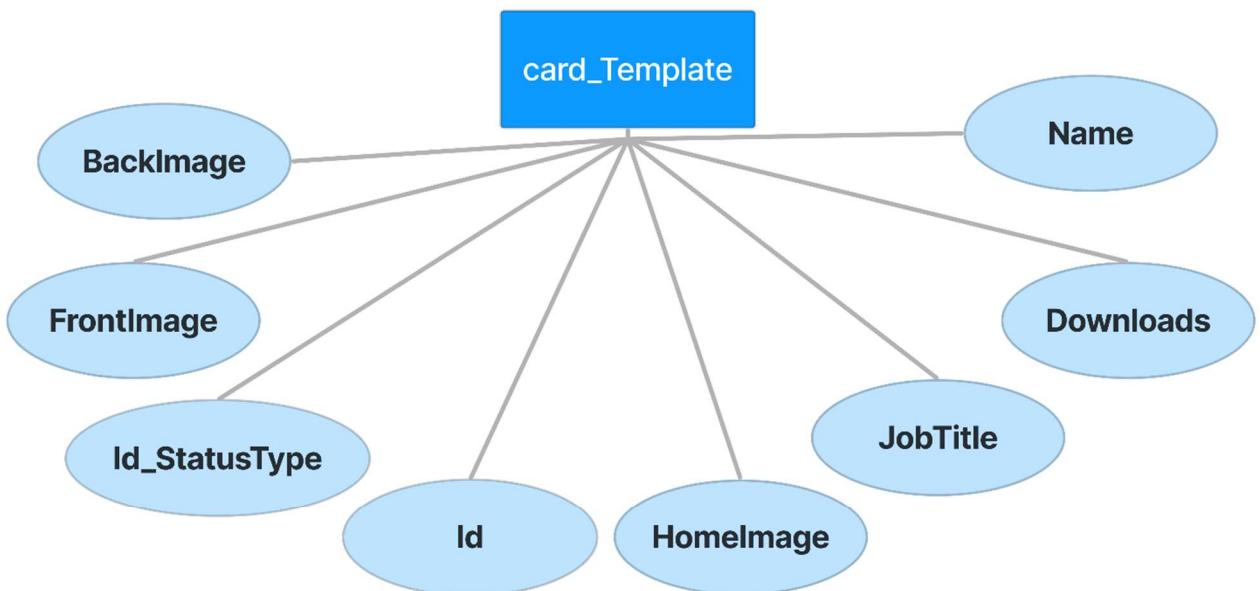
post



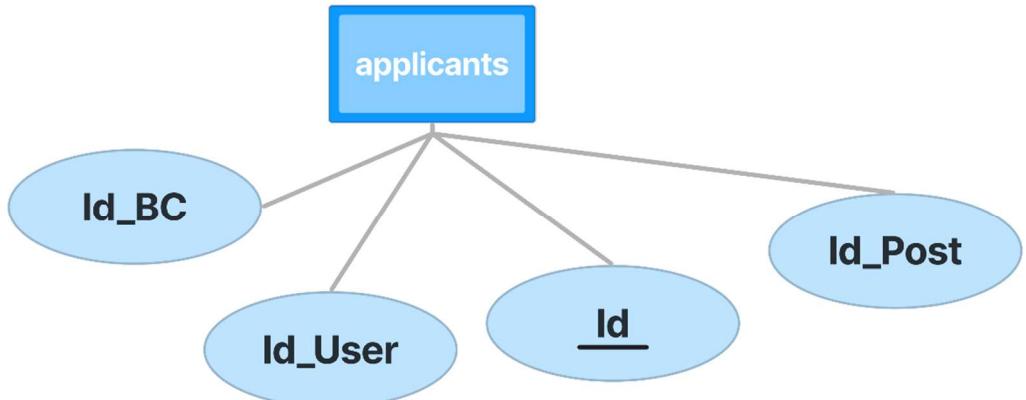
report



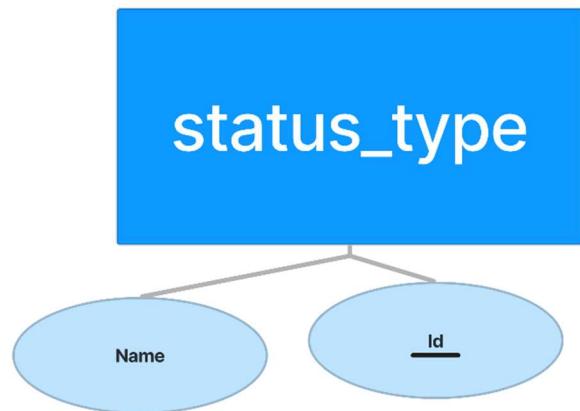
card_template



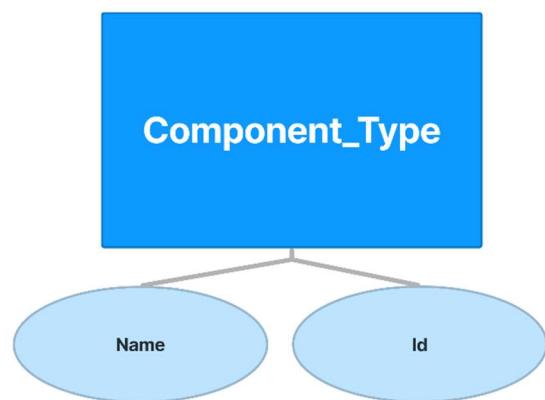
applicants



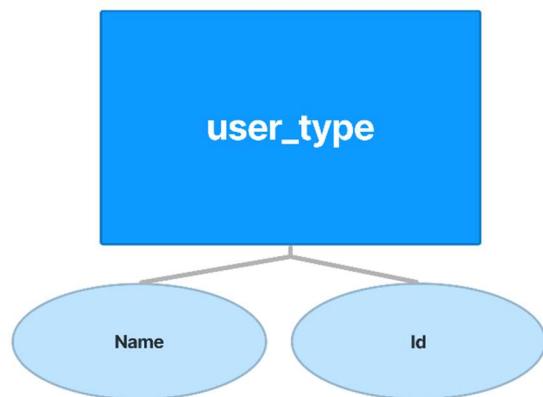
status_type



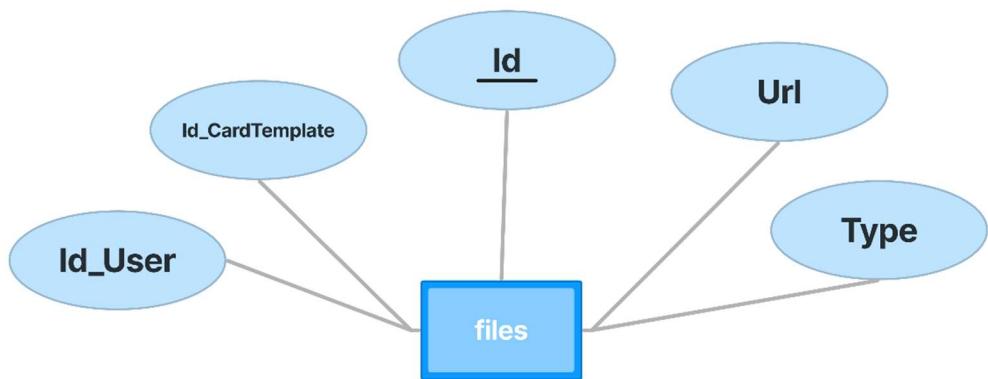
component_type



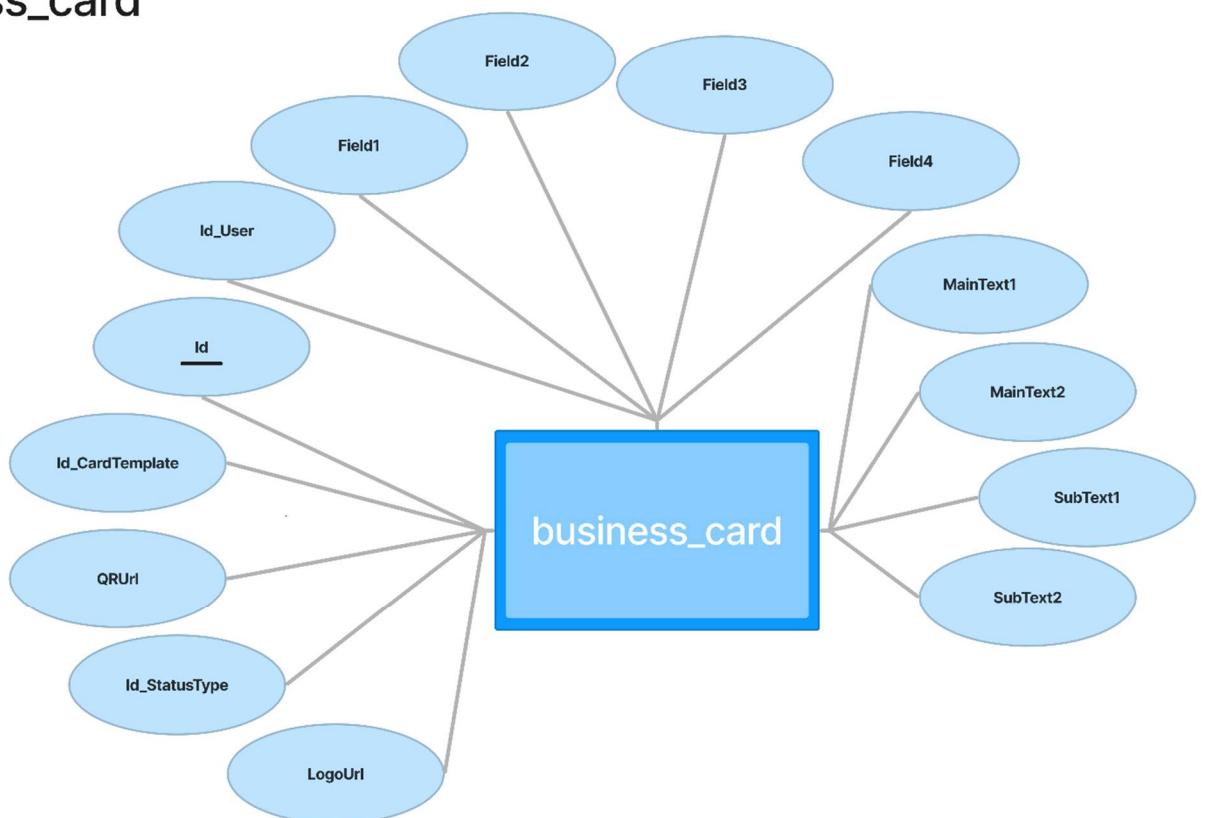
user_type



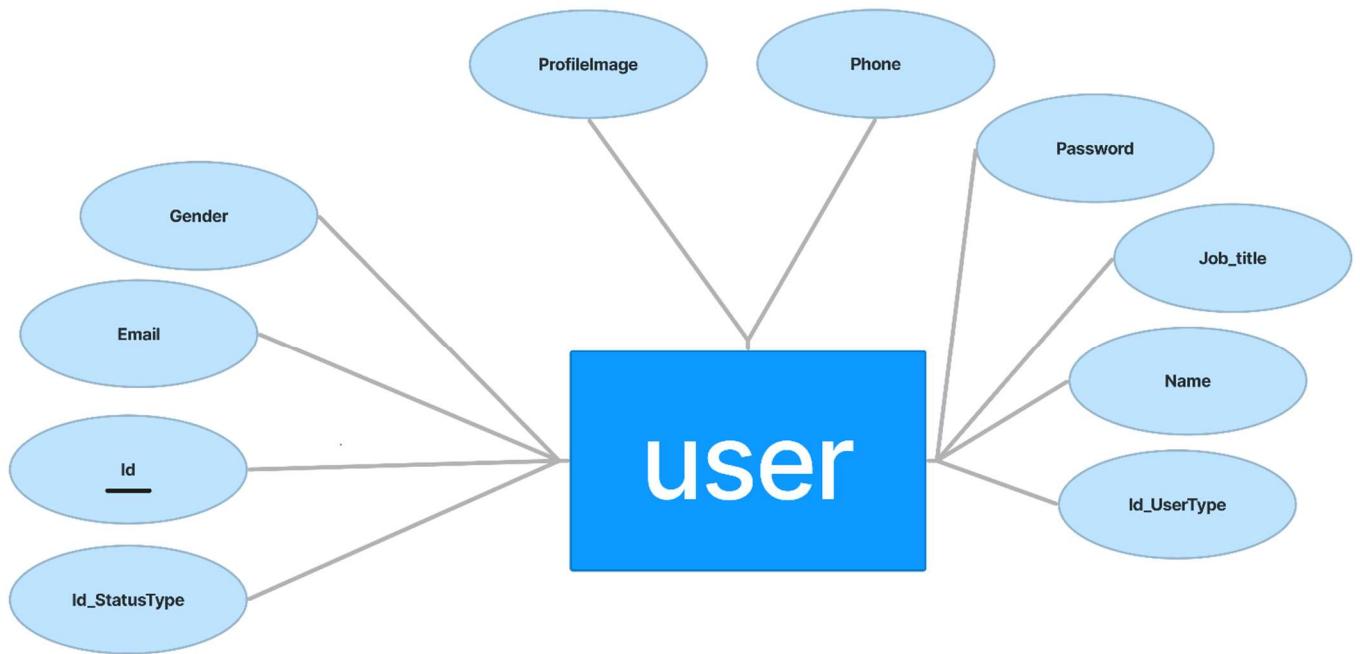
files



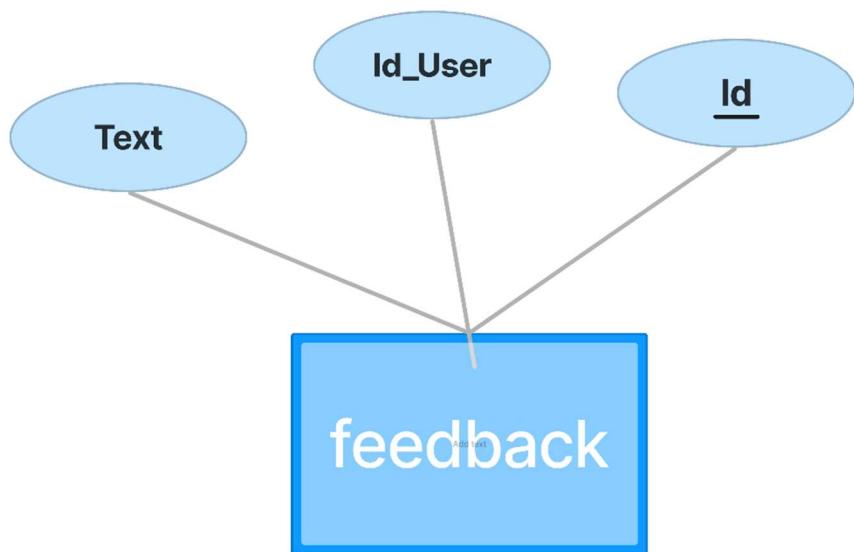
business_card



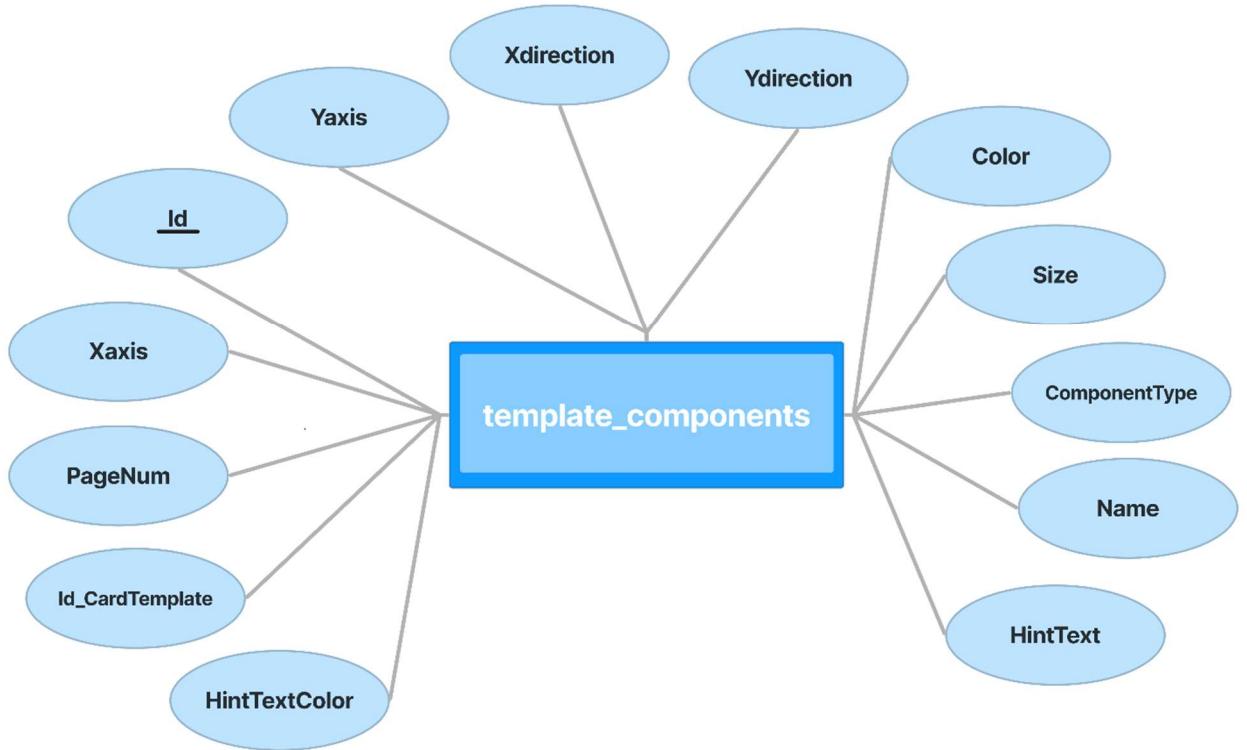
user



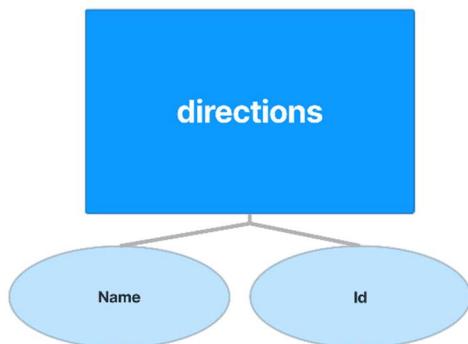
feedback



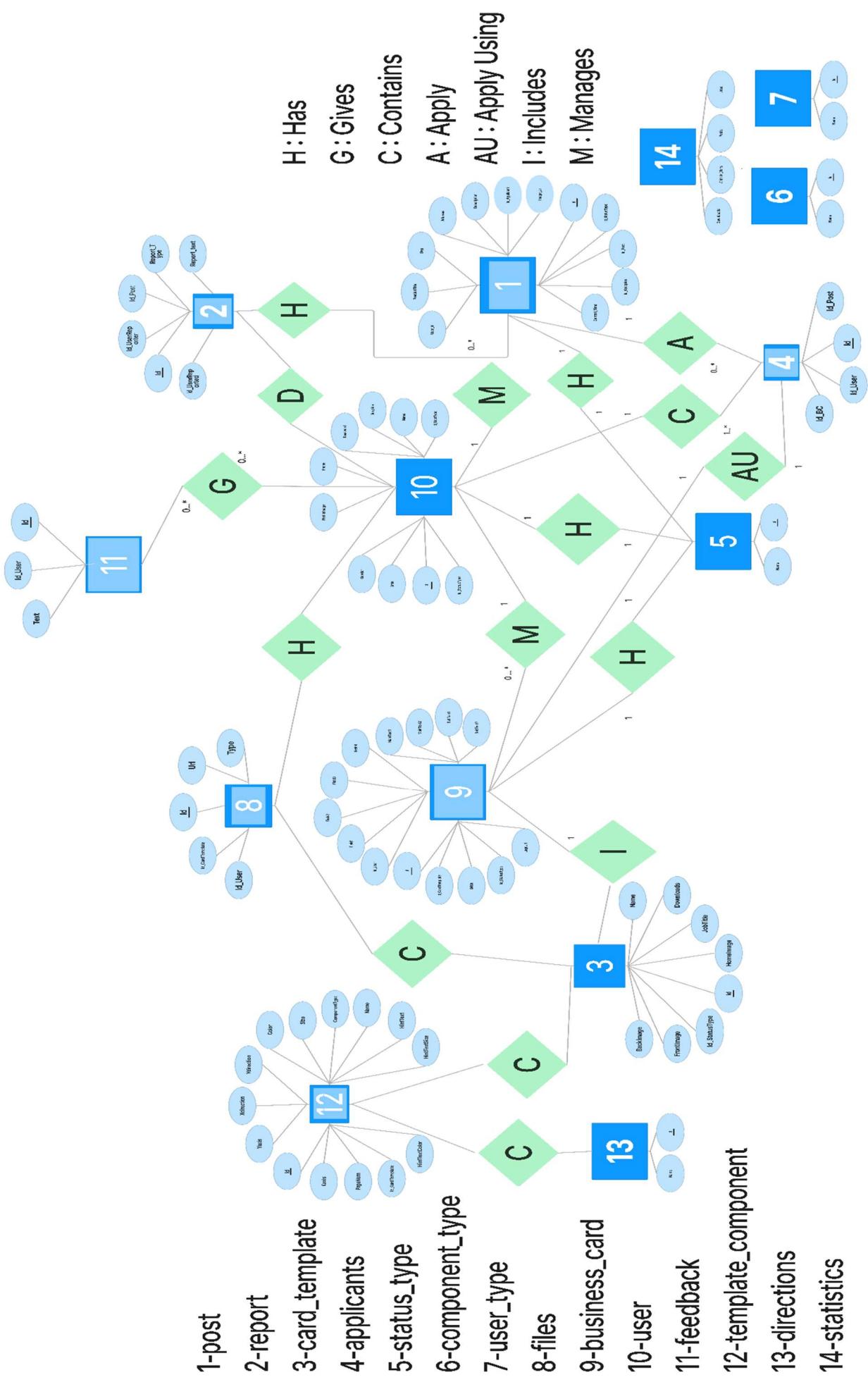
template_components



directions







4.3 User interface design (prototype)

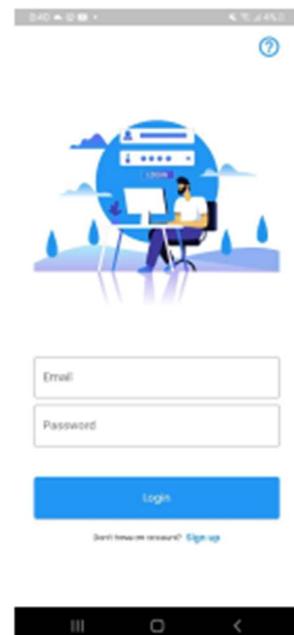
splash_screen

This screen appears when the user enters into the Application



login_screen

This screen is where the user logs into the application



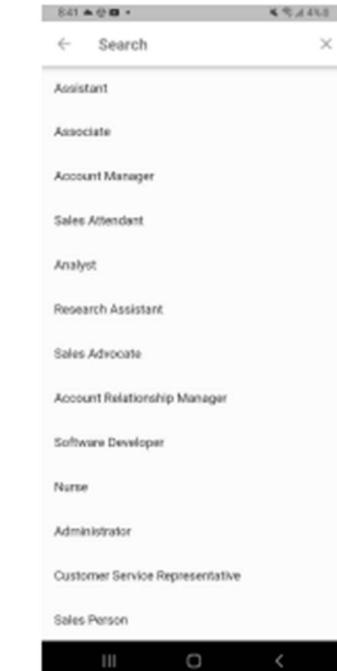
sign_up_screen

This screen is where the user creates his account



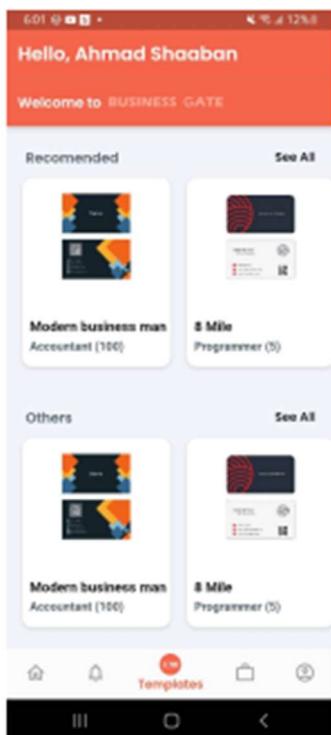
job_title_screen

This screen is where the user enters his job.



templates_screen

This screen is where the user chooses his business card template.



create_card_screen 1

This screen is where the user customizes his business card.



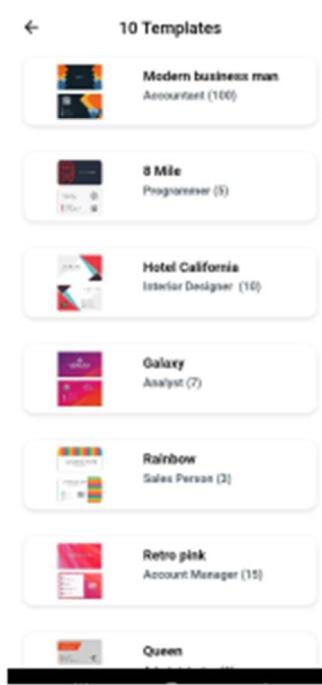
create_card_screen 2

This screen is where the user creates his business card.



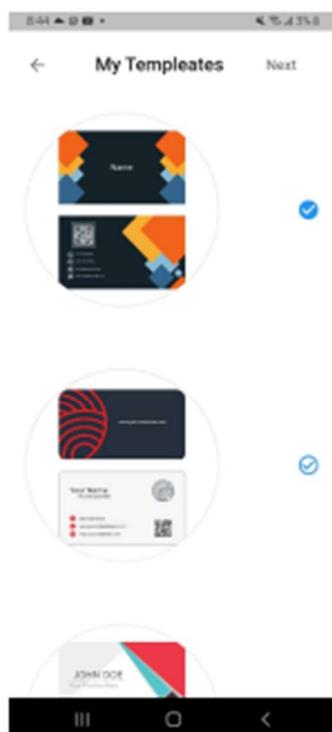
see_all_screen

This screen is where the user can view all card templates.



select_templates_screen

This screen is where the user selects a card either for job application or to showcase on profile.



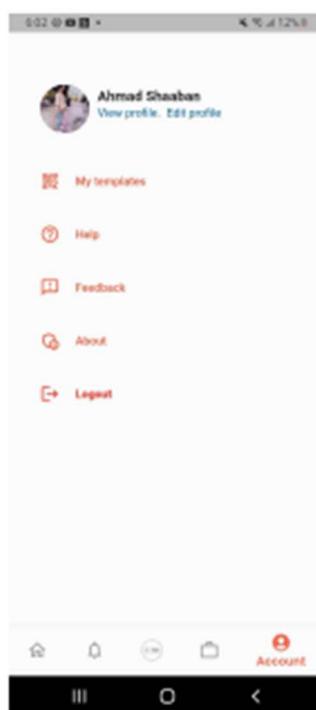
my_Jobs_screen

This screen is where the user can views his jobs.



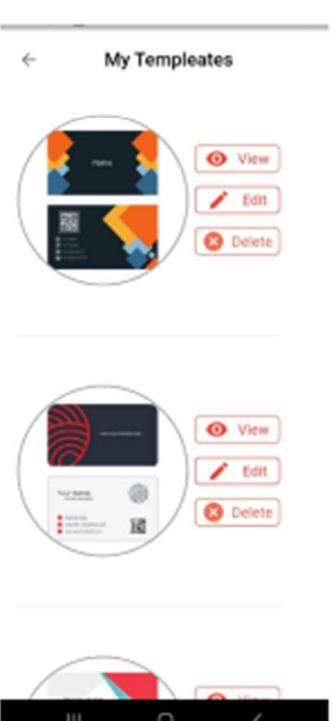
account_screen

This screen is where the user can manage his account.



my_templates_screen

This screen is where the user can manage his business cards.



profile_screen

This screen is where users can view their profile



edit_profile_screen

This screen is where users can edit their profile



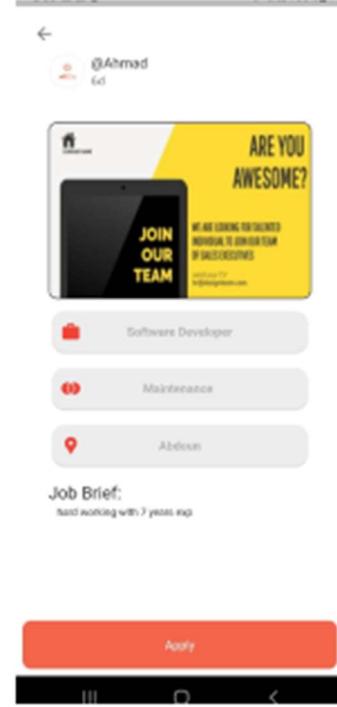
home_screen

This screen is where users can view job announcements



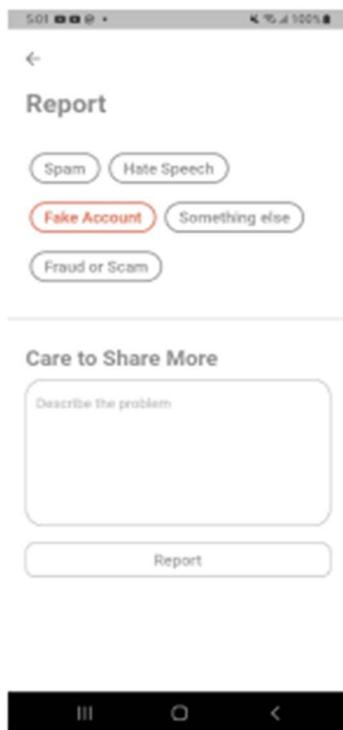
post_details_screen

This screen is where users can view post details



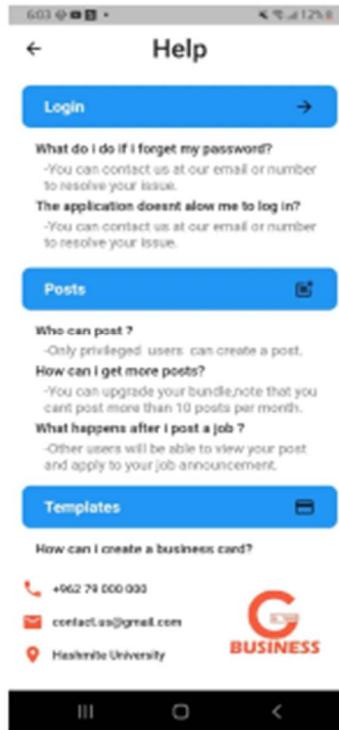
report_screen

This screen is where users can report other users



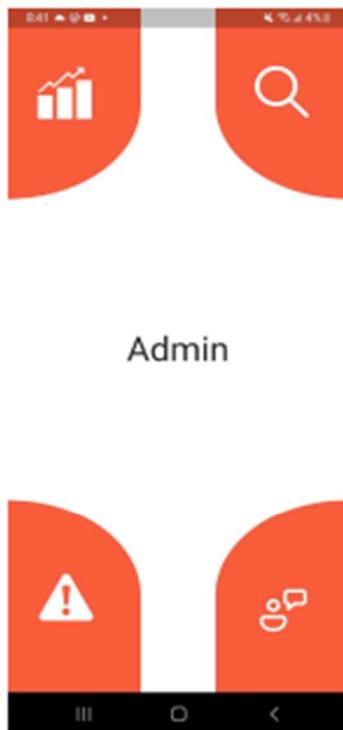
help_screen

This screen is to help users with their problems



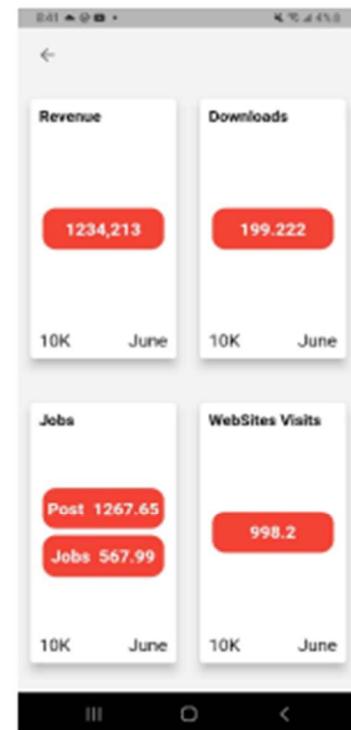
admin_screen

This screen is to view admins options



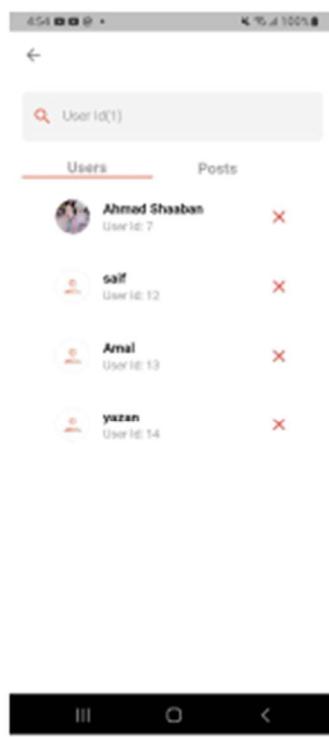
admin_statistics_screen

This screen is where the admin view application statistics



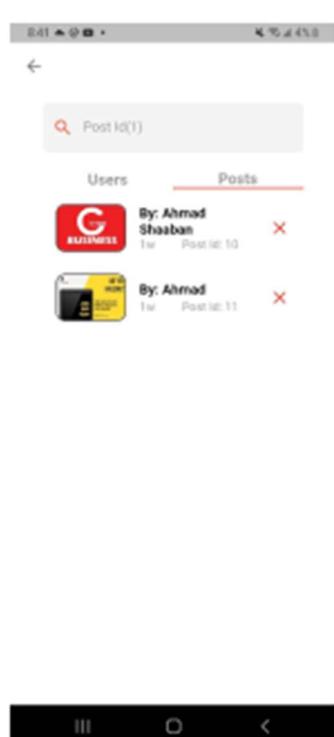
admin_search_users_screen

This screen is where the admin searches for users



admin_search_post_screen

This screen is where the admin searches for posts



admin_user_report_screen

This screen is where the admin view users reports



admin_post_report_screen

This screen is where the admin view posts reports



admin_feedbacks_screen

This screen is where the admin views feedback's



admin_feedback_details_screen

This screen is where the admin views feedback details



Business_Gate WebPage

This Web page shows the user resume, certificate and video



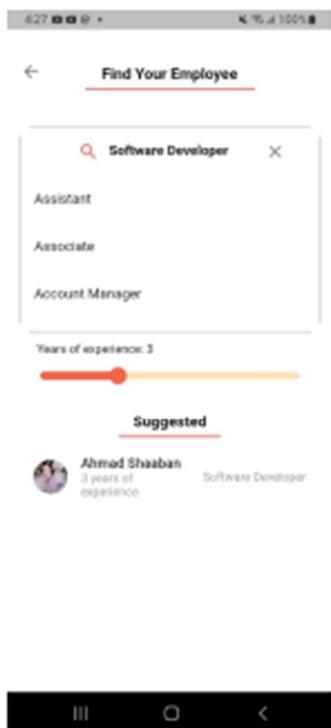
Business_Gate WebPage

This Web page shows the user certificates



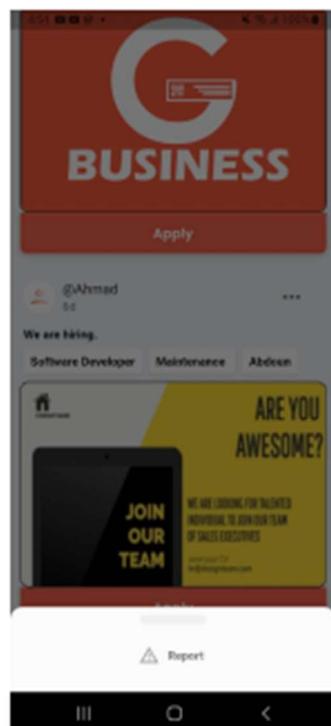
find_employee_screen

This screen is where the user searches for an employee.



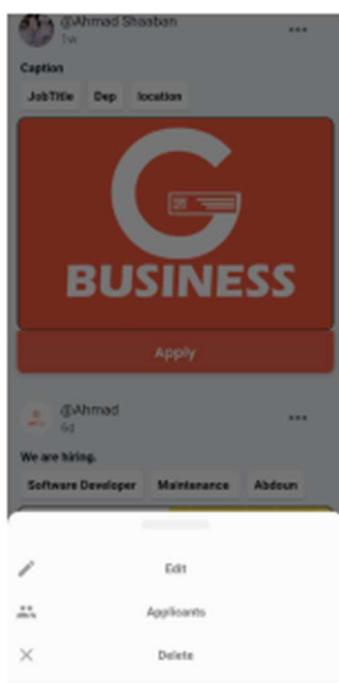
home_screen report post

The place where the user reports a post.



home_screen manage post

the place where the user , manages his post.



CHAPTER 5: IMPLEMENTATION PLAN

5.1 Description of Implementation

In our project, we will use flutter language to program our application, as well as HTML, CSS, PHP, and JavaScript. For the website, we will also use MY SQL to store the information. We used Figma for the design and prototype, as well as www.lucidchart.com for drawing diagrams.

5.2 Programming language and technology

Flutter is an open-source user interface software development kit. It is used to create cross-platform applications from a single codebase for Android, iOS, Linux, macOS, Windows, Google Fuchsia, and the web.

HTML (Hypertext Markup Language) is the most fundamental component of the Internet. It establishes the structure and meaning of web content. Other technologies are commonly used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JS) in addition to HTML (JavaScript).

CSS is a stylesheet language used to specify the display of a document written in a markup language like HTML or XML.

PHP (Hypertext Pre-processor) is a popular open-source general-purpose scripting language well-suited to web development and can be embedded in HTML.

JavaScript is a dynamic programming language that's used for a variety of purposes, including web development, web apps, game creation, and more. It enables you to add dynamic features to websites that you couldn't do with just HTML and CSS.

MySQL is an open-source relational database management system (RDBMS) based on Structured Query Language backed by Oracle (SQL). MySQL is available on almost any platform, including Linux, UNIX, and Windows.

Lucid chart is a web-based tool for creating and sharing flowcharts, mind maps, database diagrams, and other sorts of process visualization.

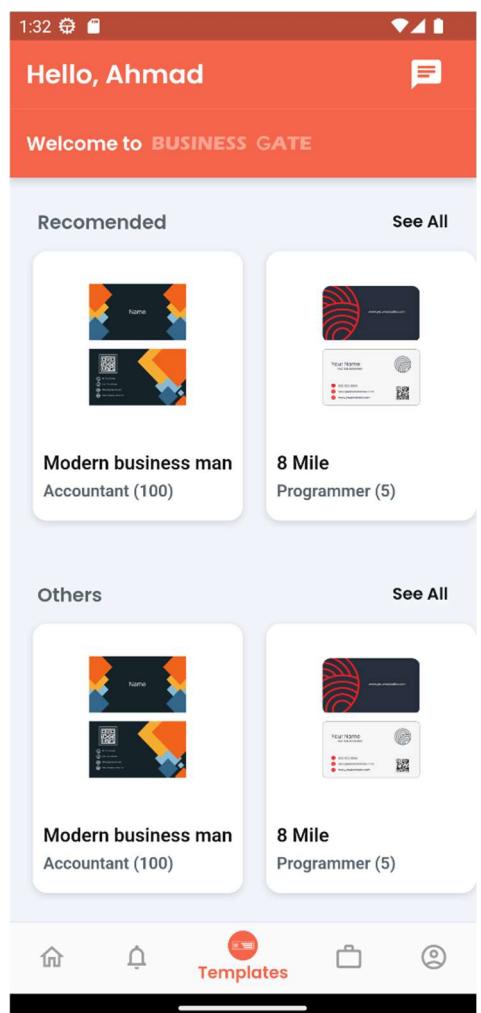
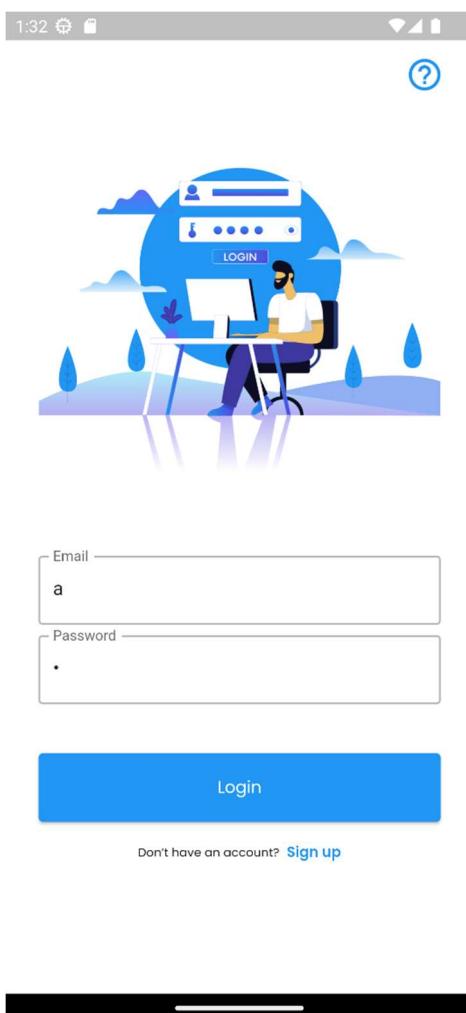
Figma is a vector graphics editor and prototype tool that is mostly web-based, with desktop apps for macOS and Windows enabling additional offline features. Figma prototypes may be viewed and interacted with in real-time using the Figma mobile app for Android and iOS.

CHAPTER 6: TESTING PLAN

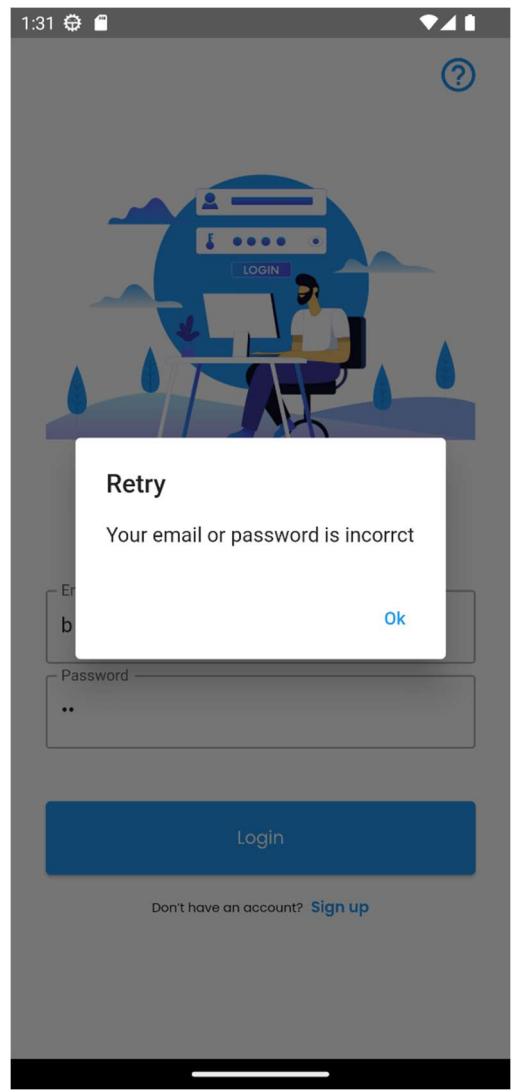
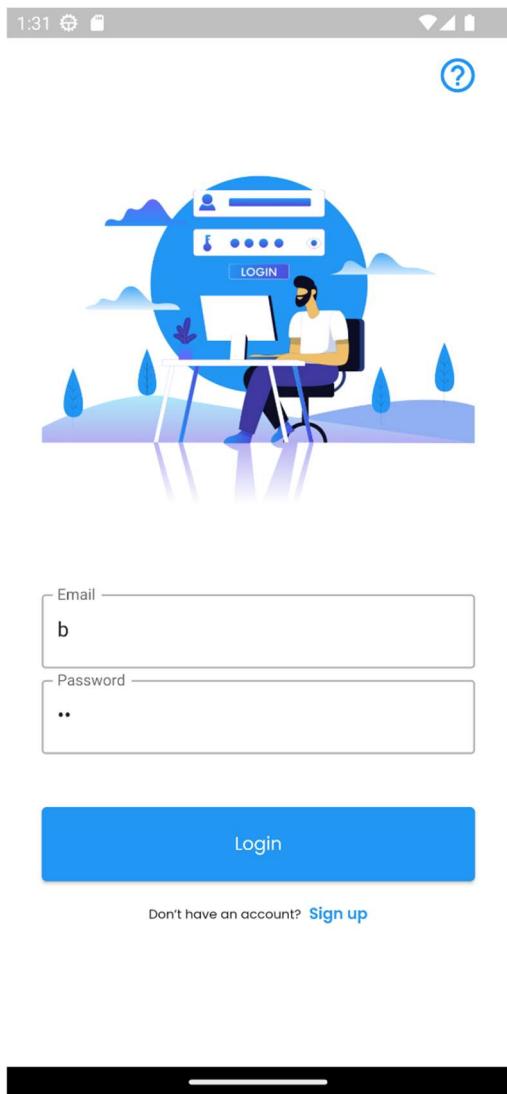
6.1 Black box

Test Case ID	Test Scenario	Test Case	Pre-Condition	Test Steps	Test Data	Expected Result	Actual Result
TC_login_1	Verify the login with email	Enter a valid email And a valid password	Need a valid email and password to login	1.Enter email. 2.Enter password. 3.Click “login” to continue.	<valid email> <valid password>	Login successful	Login successful
TC_login_2	Verify the login with email	Enter an invalid email And invalid password	Need a valid email and password to login	1.Enter email. 2.Enter password. 3.Click “login” to continue.	<invalid email> <invalid password>	Login unsuccessful	Login unsuccessful

Screenshots for TC_login_1



Screenshots for TC_login_2



CHAPTER 7: CONCLUSION AND RESULTS

7.1 Summary of accomplished project

The project aimed to develop a mobile application for creating customized business cards and connecting job seekers with employers. The main objective was to facilitate the job search process for job seekers and minimize the paperwork for employers by providing a small business card with a QR code. Throughout the development process, various features were implemented and tested, including the ability for users to sign up and sign in, create, and download templates, apply for jobs, view applicants, edit their profiles, and report other users and posts.

Overall, the project was successfully completed and demonstrated the effectiveness of the proposed solution in addressing the identified problems.

7.2 Future Work

1. Adding more customizable features for the business card templates, such as the ability to add logos or design elements.
2. Expanding the network of employers and job seekers by partnering with job boards or other job search platforms.
3. Developing a mobile application to make it easier for users to access and use the platform on the go.
4. Improving the user experience by adding more intuitive navigation and design elements to the platform.
5. Adding a feature to allow users to connect and network with each other, potentially through a professional networking component or a social media-style feed.
6. Adding a feature that allows users to edit their current business cards.

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