

# **PRINCIPLES DATABASE OF MANAGEMENT**

**ONLINE CV BUILDER**

**GROUP 2**



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# INTRODUCTION

- This Principles of Database Management course project focuses on developing a CV builder, a platform for create and customize CV's.
- Historically, managing paper CV's was the difficult task to fulfill. So we developed the online version of it to address those drawbacks.
- The goal of this project to provide a user-friendly platform for creating, managing, and sharing professional profiles.



# OLIVIA THOMPSON

MANAGER MARKETING



## ABOUT ME

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse laoreet tellus non dui volutpat, id tempor orci accumsan.

## SKILL

Market Strategy  
Accounting  
Communication  
Technical  
Problem Solving



## EXPERIENCE

### Olivia Design Studio

#### Junior Digital Marketing 2023

- Lorem ipsum is simply dummy text of the printing and typesetting industry.
- Lorem ipsum is simply dummy text of the printing and typesetting industry.

### Olivia Design Studio

#### Senior Digital Marketing 2026

- Lorem ipsum is simply dummy text of the printing and typesetting industry.
- Lorem ipsum is simply dummy text of the printing and typesetting industry.
- Lorem ipsum is simply dummy text of the printing and typesetting industry.

## EDUCATION

### Maria School Of Marketing

- Bachelor Degree of Marketing and Business

### Bachelor of Digital Marketing

- Bachelor Degree of Marketing and Business

## HOW TO REACH ME

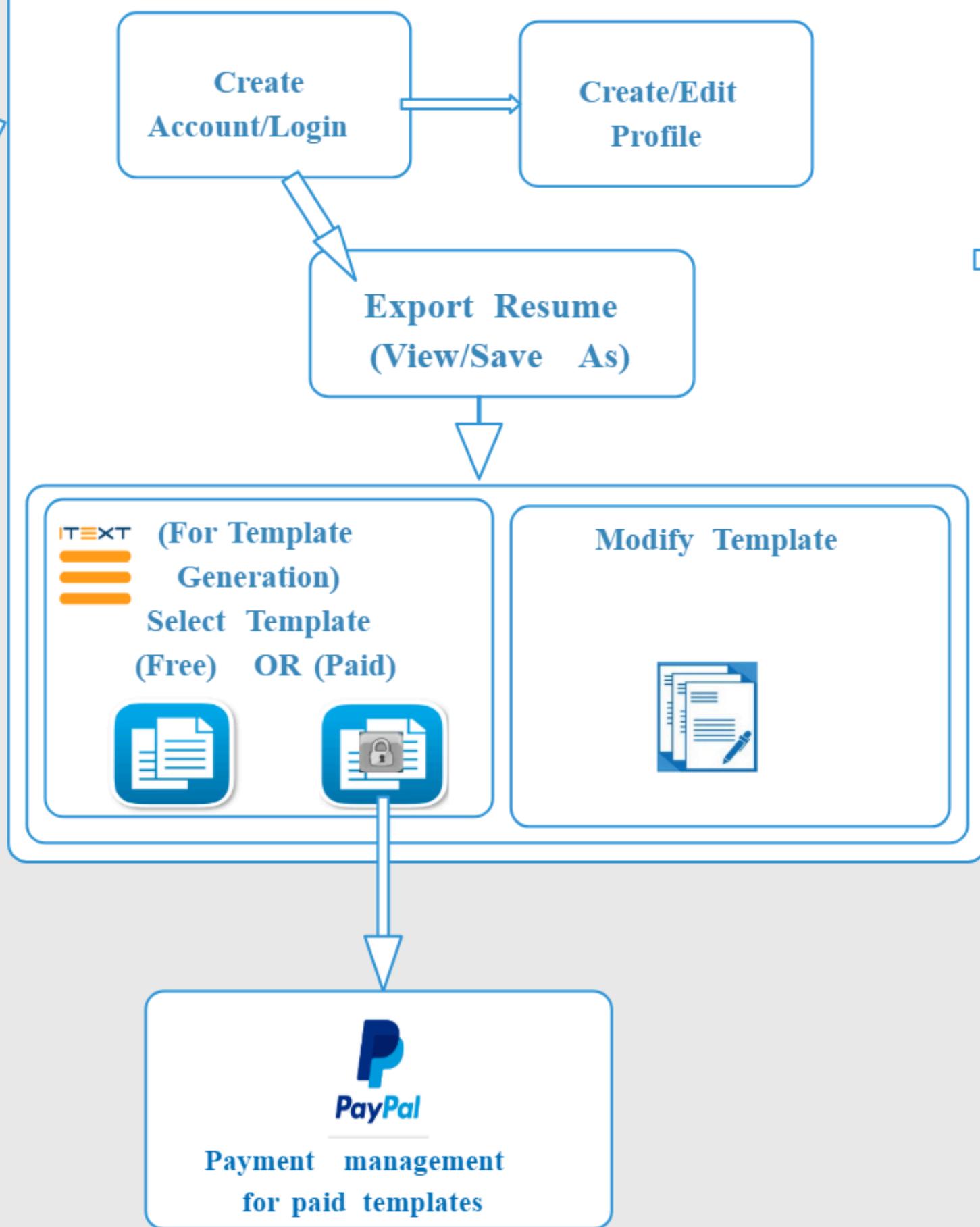
Contact: 123-456-7890  
Email: hello@reallygreatsite.com  
Address: 123 Anywhere Street, Any City, State

# ABSTRACT

- The CV builder project enables users to create, customize, and export CVs with templates (such as PDF format) and secure data storage, applying database management principles.
- It simplifies CV creation despite potential cybersecurity risks.



# SYSTEM OVERVIEW



Paper resumes are limited by physical constraints, requiring manual distribution and being prone to damage or loss. Online CVs address these issues by offering secure access, customization, and global reach. With user-friendly interfaces and templates, they simplify updates and enhance presentation, supporting career growth in the digital job market.

# GOALS

An online CV builder aims to simplify creating and sharing professional profiles. Built with Java, it integrates a front-end interface and back-end database, offering templates, customizable sections, and multimedia support. Features include secure accounts, template selection, and PDF export, enhancing visibility and professional networking.

# TECHNOLOGIES



Programming Language

- Java.
- JDK Version: 11 or higher.

Java Database Connectivity

- JDBC 11

Development Environment

- IntelliJ IDEA: Used for its advanced features.

GUI Library

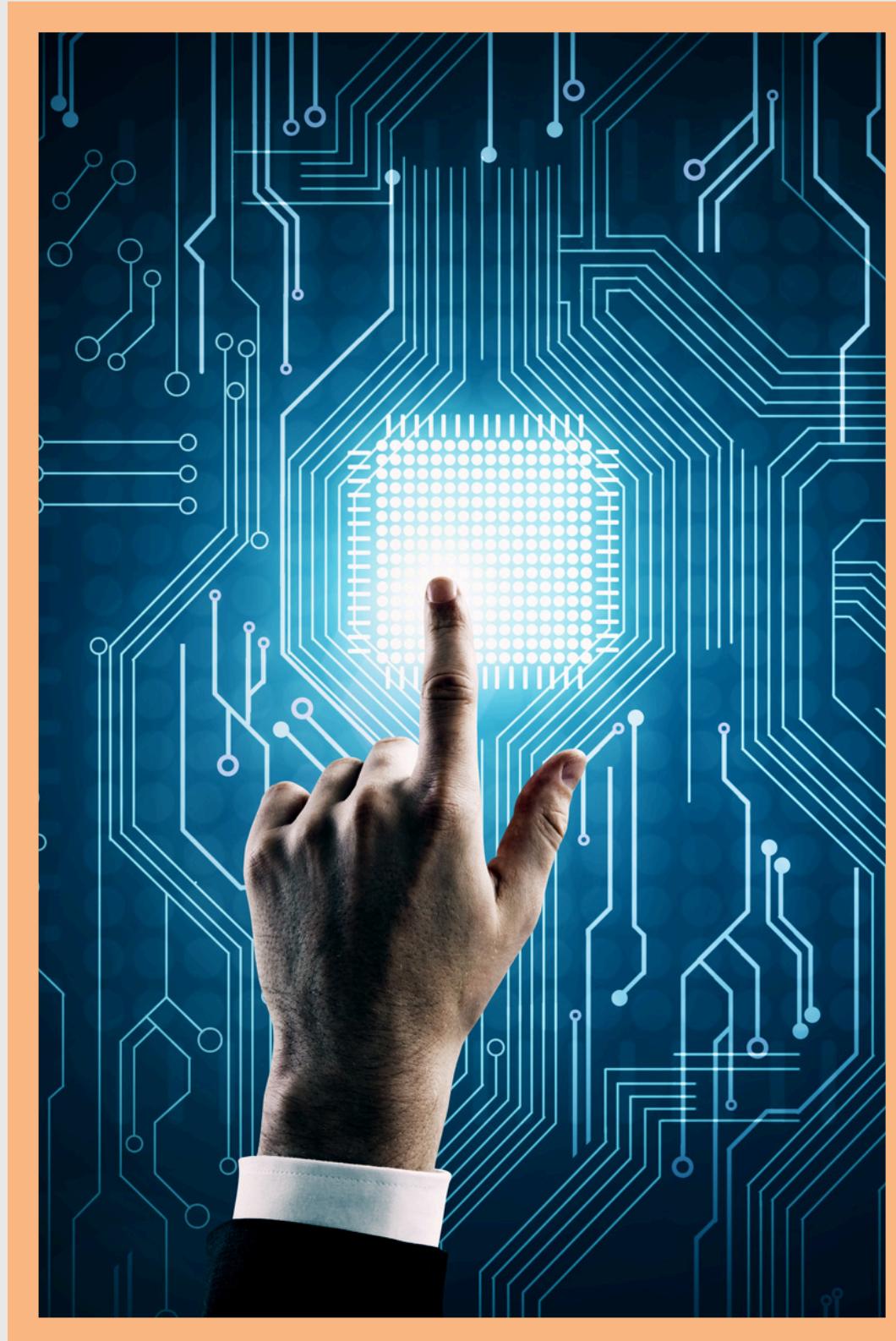
- JavaFX: Provides lightweight, cross-platform GUI components.

Database

- SQL Server.

Version Control

- Git and GitHub.



# PROJECT TIMELINE



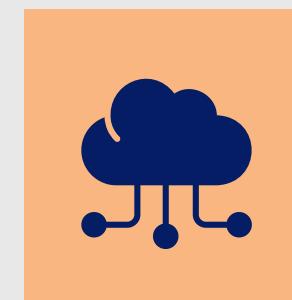
## TOPIC DECISION, PREPARATION

September 17th - September 29th  
PROPOSAL



## ERD, RELATIONAL MODEL BUILD

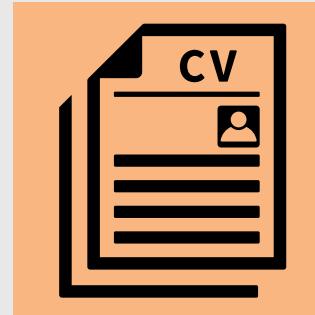
September 30th - October 28th  
MIDTERM REPORT



## PROJECT COMPLETION, DEBUG, DEMO TEST

October 29th - December 8th  
FINAL PROJECT

# PROJECT ANALYSIS



## REQUIREMENTS

CV online builder -  
requirements



## SYSTEM

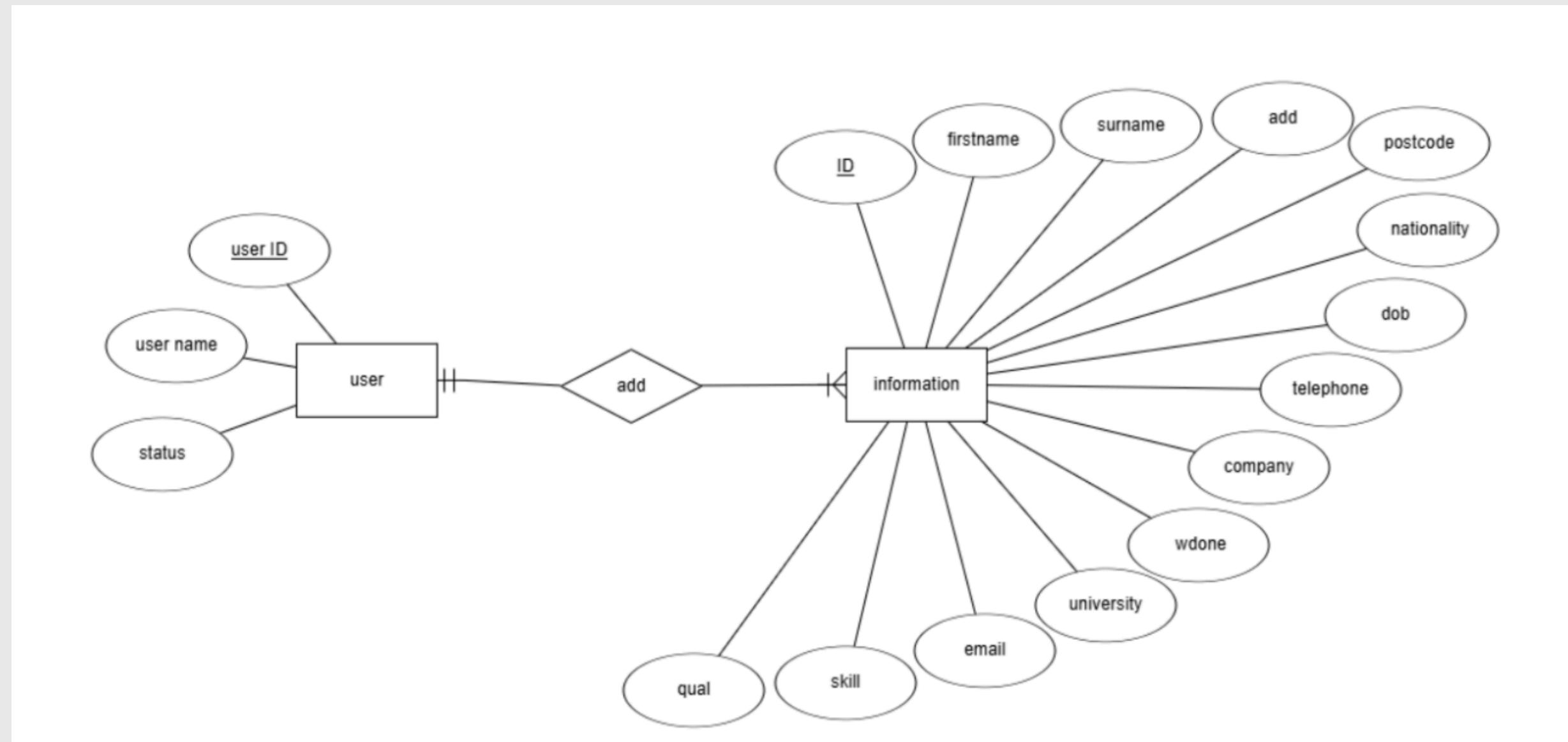
Database design, Normal form,  
database & table creation, Querry



## APPLICATION USES

Java Application: IntelliJ IDEA  
Java(fx) - G.U.I Frame design

# SYSTEM ANALYSIS - DATABASE DESIGN



# SYSTEM ANALYSIS - NORMAL FORM

- Definition: Data normalization minimizes redundancy and improves data integrity by organizing data into efficient, non-redundant structures.
- Normalization Forms: Common forms include 1NF, 2NF, 3NF, and BCNF, each addressing specific dependencies.
- Project Achievement: The Online CV Builder project achieved BCNF, ensuring efficient data management and reliability for users' CV information.

# SYSTEM ANALYSIS

## DATABASE - TABLE CREATION

```
CREATE DATABASE CVs
```

```
GO
```

```
USE CVs;
```

```
GO
```

- Database Creation
- Table Creation
  - Permanent Table
- Database Data Insertion



# CONCLUSION



- **Core Database Design Completion:** Successfully achieved a robust and efficient database structure, normalized to BCNF, supporting customizable CV sections and efficient data handling.
  - **Moreover:** Focus on integrating the database with platform components to enable additional features, with final outcomes to be detailed in the final report.
- 

# PROJECT'S GITHUB

 PDM-Project Public

main 1 Branch 0 Tags

Go to file t Add file Code

File / Commit	Message	Date
NguyenHieu-24 README.md		05bae64 · 38 minutes ago
.idea	adding more!	1 hour ago
CV Generator	adding more!	1 hour ago
CV-Builder	adding more!	1 hour ago
CVGenerator.java	adding more!	1 hour ago
CVs.iml	adding more!	1 hour ago
README.md	README.md	38 minutes ago
SQL_Online_CV_Builder.sql	Add files via upload	last month

About

The github PDM project of Mrs. Thuy  
Loan class. Group 2

Readme  
Activity  
0 stars  
1 watching  
1 fork  
[Report repository](#)

Releases

No releases published  
[Create a new release](#)

# REFERENCES



RAMAKRISHNAN, R., & GEHRKE, J. (2002). DATABASE MANAGEMENT SYSTEMS (3RD ED.). MCGRAW-HILL EDUCATION.



SCHILDT, H. (2018). JAVA: THE COMPLETE REFERENCE (11TH ED.). MCGRAW-HILL EDUCATION.



ARTICLE, (2024, SEPTEMBER 26). DOWNLOAD SQL SERVER MANAGEMENT STUDIO (SSMS). MICROSOFT.



NORMALIZATION AND DATABASE DESIGN - W3SCHOOLS. (N.D.). W3SCHOOL.



ONLINE RESUME BUILDER - A STUDY ON MODERN CV MANAGEMENT. JOURNAL OF DATABASE APPLICATIONS AND INFORMATION SYSTEMS, 15(2), 134-145.



# THANKS FOR LISTENING

## Q&A

