



JEDI TEAM E FLIPKART DEVELOPMENT

Where we started?

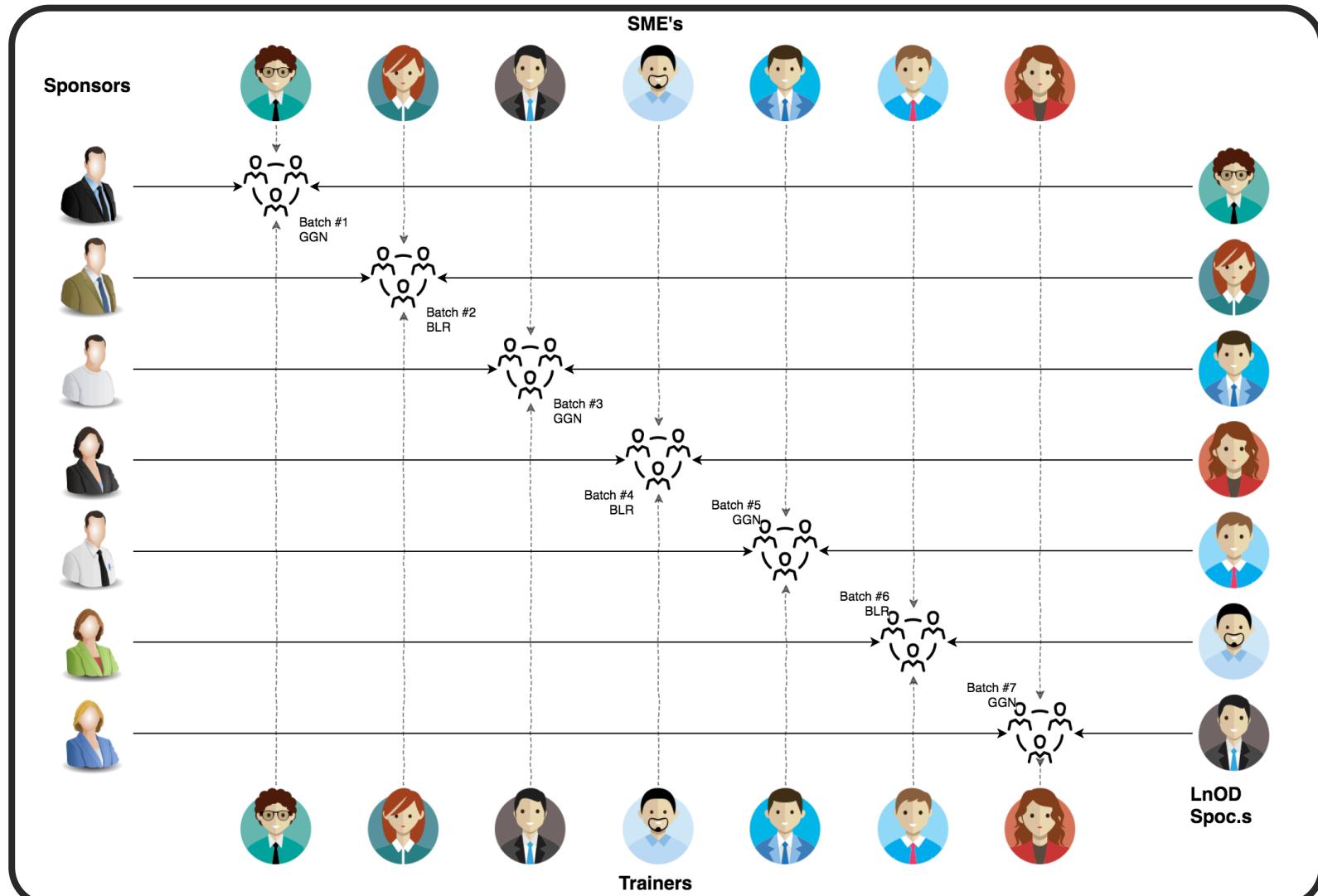
Developing a new student registration system for Wylie College. The college would like a new client-server system to replace its much older system developed around mainframe technology. This legacy system was slow and inflexible, hindering efficient course management and student access

Framework for 5 Days

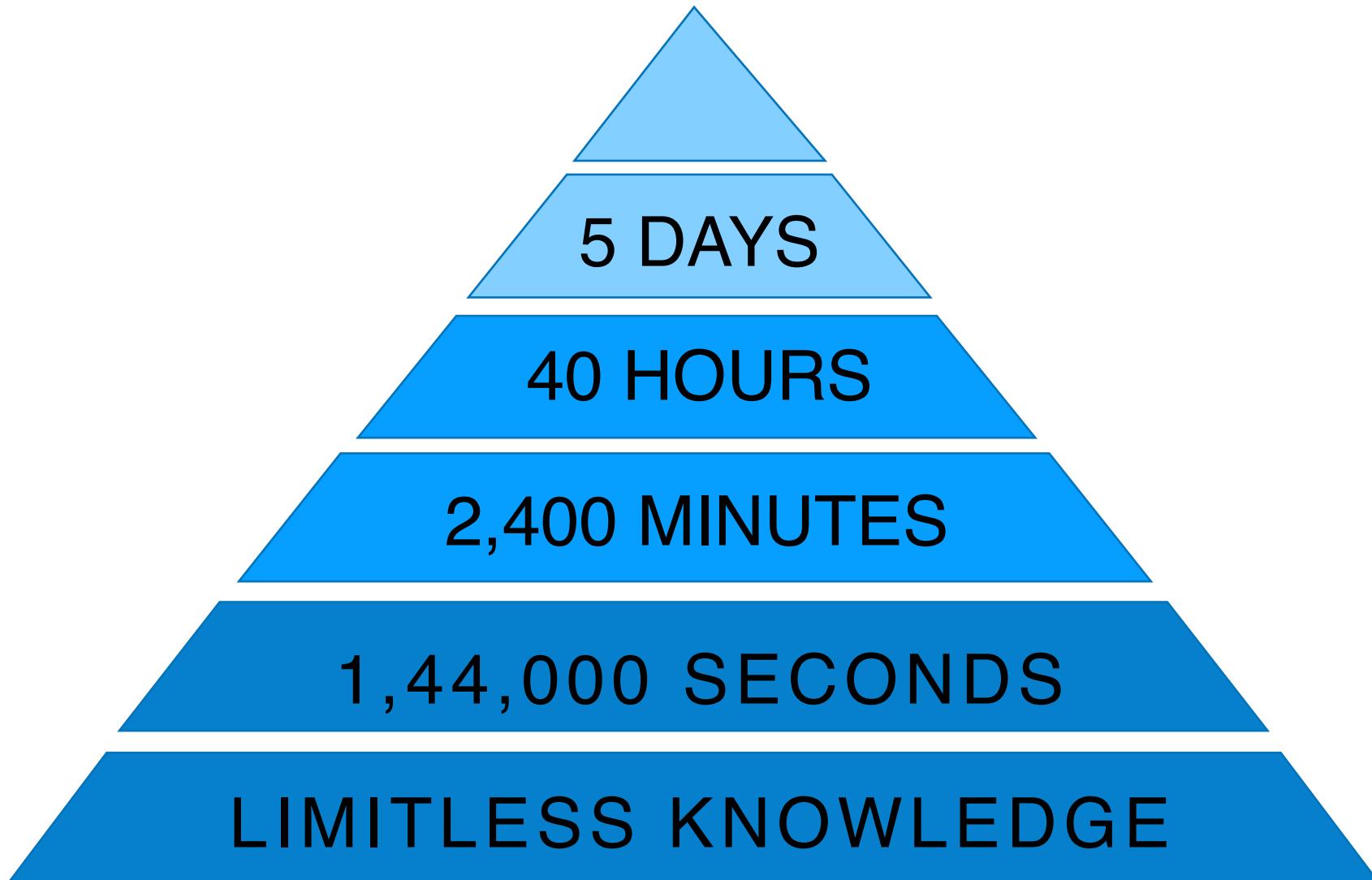
- 5 days plan
 - Sessions about various topics and technologies relevant to the project.
 - Focus on both theoretical understanding and practical applications.
 - Identify key areas needing focus or improvement and explore best practices and common pitfalls.

Stakeholders

- **Sponsor - Flipkart**
- **SME - Amit**
- **HR - Anushka Khanna**



5 DAYS OF TRAINING + PROJECT



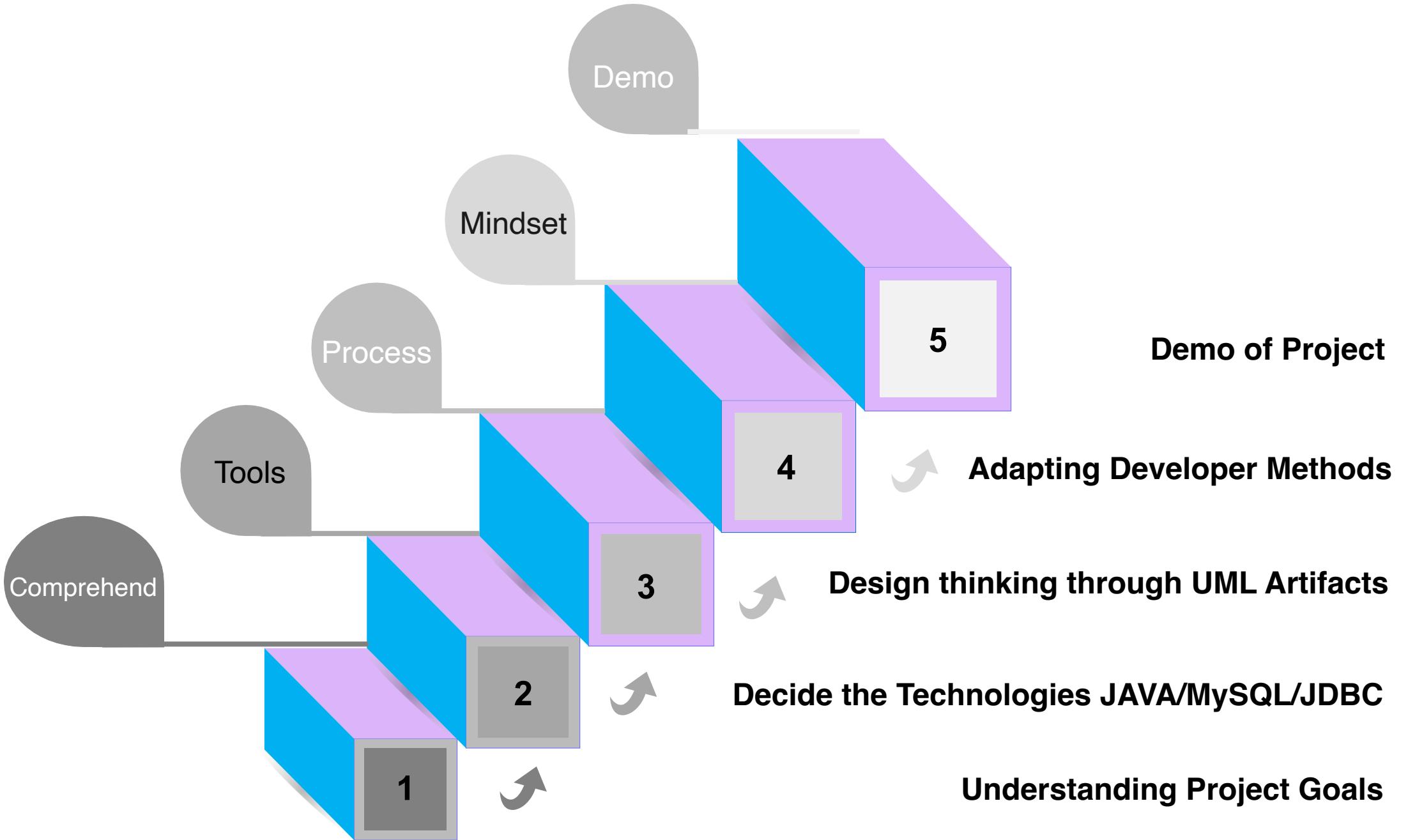
Agenda

- 01 Our Journey
- 02 Our Team
- 03 Team Structure
- 04 Project Goals
- 05 Tech Stack
- 06 Development
- 07 Challenges & Learnings
- 08 Demo
- 09 Questions



OUR JOURNEY





Our Team





Pranjali (Team Leader)



Nirmal



Aman



Joseph



Anya

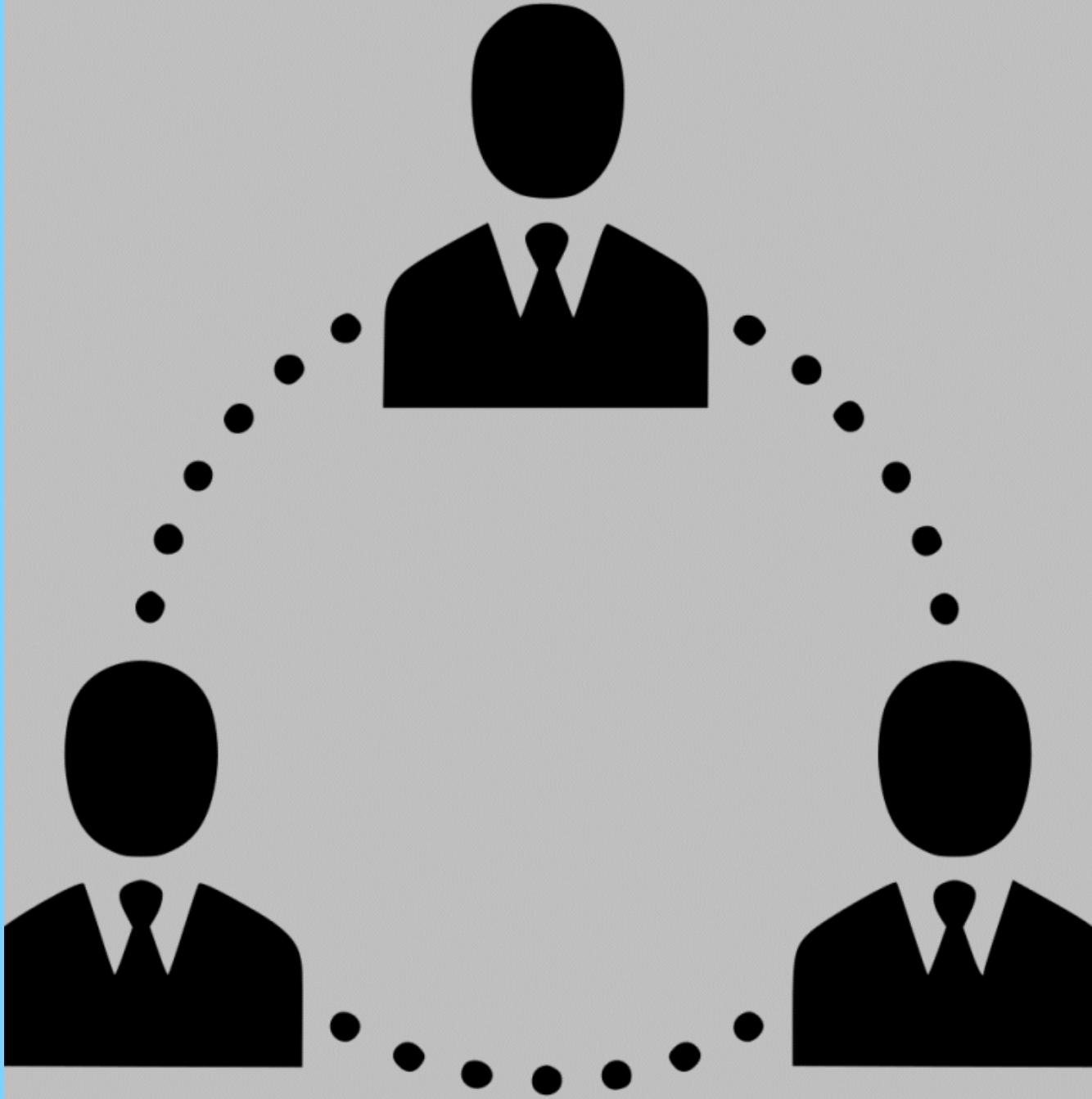


Nisrayani



Hemant

Team Structure



Project Goals



- The goal of this project is to develop a new client-server based student registration system for Wylie College that replaces the outdated mainframe technology.
- This new system will allow students to register for courses and view report cards from personal computers connected to the campus LAN.
- Professors will have the ability to sign up to teach courses and record grades.
- The system will integrate with the existing database via MYSQL interface, ensuring timely access to course information while maintaining the existing course catalog database.
- Key features include
 - Course registration
 - Schedule adjustment periods
 - Automated billing
 - Access to report cards
 - Access to add/drop courses for students in a specific time

PROJECT GOAL

This system will enhance efficiency, accessibility, and security for both students and faculty members.

UML Artifacts and Setting Up Development Environment

- On the first day, we created **class diagrams** and **usecase diagrams** for the project and focused on learning GitHub to facilitate version control and collaboration.
- We created the necessary folders and files within the repository, laying the groundwork for our project structure.

DAY:1

Establishing the Project Framework

- The second day involved creating the foundational Java packages, including **clients**, **business**, and **beans**. We wrote the initial skeleton for these packages, defined **interfaces** for various classes, and established a connection to the database, ensuring a solid framework for the system.

DAY:2

Implementing Core Functionality

- On the third day, we concentrated on coding the **Data Access Object (DAO)** package, which handles interactions with the database using **JDBC**. Additionally, we implemented comprehensive **exception handling** to manage potential errors and ensure system robustness.

DAY: 3

Enhancing Functionality with Date and Time API , Stream API

- The focus of the fourth day was coding the **Date and Time API, Stream API** crucial for the student registration process. This API ensures precise tracking of registration activities, providing clear records of when specific actions occurred
- Coded the **Validation** of the users to login into the System

DAY: 4

Our Vision

Our vision for the new student registration system is to create a modern, efficient, and user-friendly platform that enhances the academic experience for both students and faculty.

For students, the system will provide:

- **Ease of Use:** An intuitive interface that allows students to browse course offerings, select their primary and alternative choices, and manage their schedules, view report card, pay bill seamlessly.
- **Information Accessibility:** Detailed course information, including professors, departments, and prerequisites, to empower students to make well-informed decisions.
- **Flexibility:** The ability to modify their course schedules within the designated add/drop period, ensuring that students can adjust their academic plans as needed.

For faculty, the system will provide:

- **Course Management:** Easy access to indicate which courses they will teach and to view the list of students enrolled in their courses.
- **Grade Recording:** A streamlined process to record and manage student grades securely and efficiently.

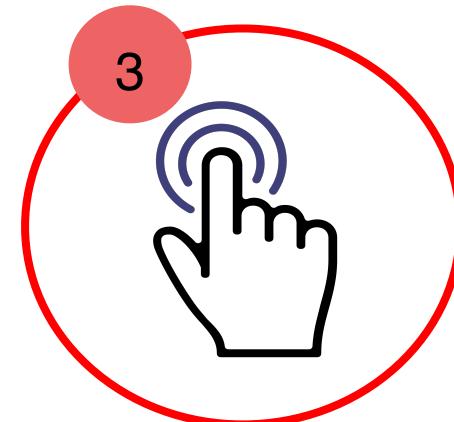


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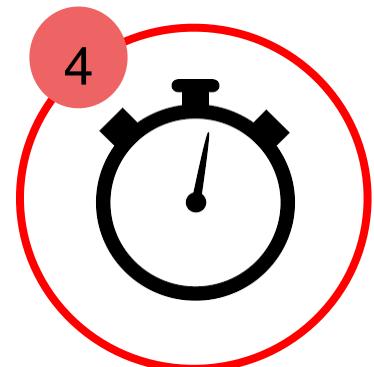


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Quality



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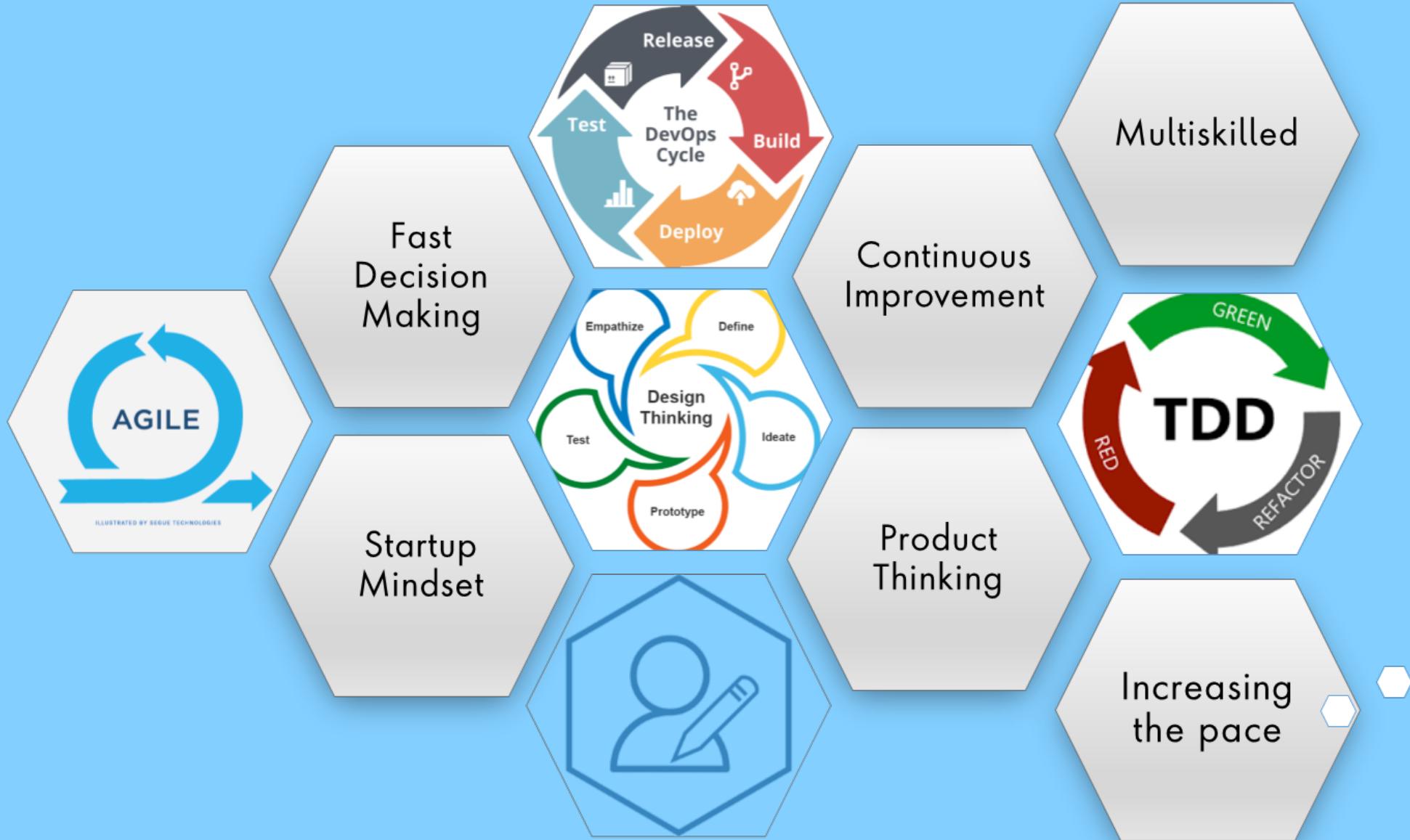
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Interactivity

Speed

Engineering Practices





Tech Stack



Frontend

Framework

Backend

Core Language

Data

Tools



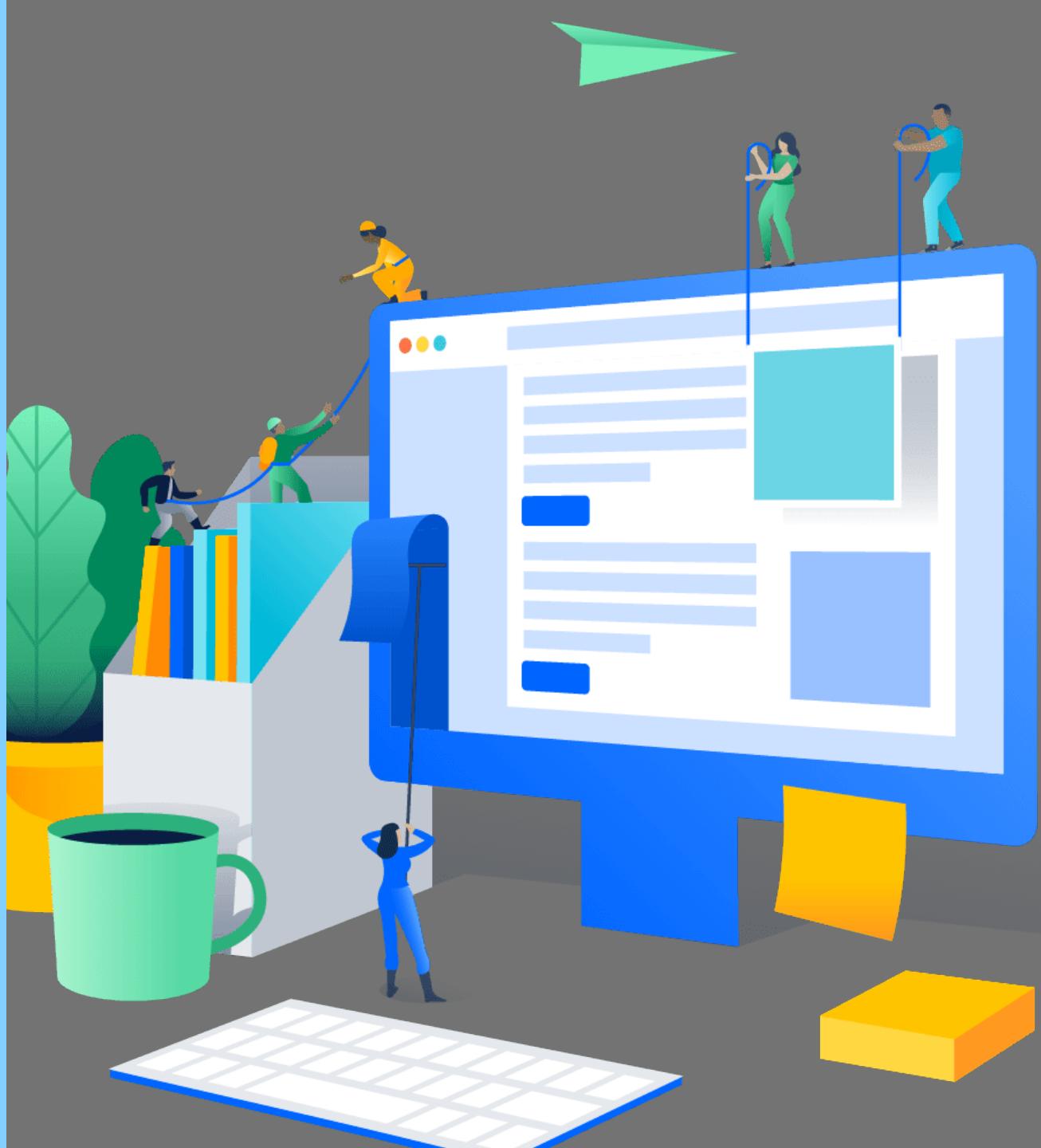
Framework



SQL Database



Development



- Problem Statement
 - Class Diagram
 - UseCase Diagram
- Setting up Java Packages, classes and database

Understanding
the Problem
Statement

System
Planning

Running
the code

Sprint
Implemen
tation

- Testing the Methods
- SQL Constraints

Logic in the Java
methods and
Database Connection

Challenges & Learnings



Day 0	<ul style="list-style-type: none"> • Installations • Getting admin access • Getting git access 	Day 3	<ul style="list-style-type: none"> • Implementing Interfaces • Implementing Class methods in DAO and Business package • Connecting MySQL database to our system using JDBC
Day 1	<ul style="list-style-type: none"> • Git commands • Java Basics • Pulling and pushing Issues with Github • Creating the UML diagrams correctly 		
Day 2	<ul style="list-style-type: none"> • Creating the skeleton of the system • Deciding the attributes and methods of classes. • Implementing the getters and setters of the same in beans package • Creating methods structure in business package • Defining all method parameters • Creating Admin, Student and Client Menu which are referenced in CRSMainApplicationClient • Using OOPS concepts in Java like Inheritance etc. 	<h1>Learnings</h1>	
		Day 4	<ul style="list-style-type: none"> • Using API's like Date and Time API, Stream API • Comments with respective authors and the description of parameters at interface and class level. • For-each loop in Java • Project documentation

Demo



Questions





Thank you