Flipkart

Where did we start?

We began our journey as a team and we individually have only limited knowledge on smaller scope projects which we have done in our colleges.

On the first day, we only knew some fundamentals of Git, followed by the workings and syntax of Java.

Framework for 1 Week

Flipkart

- 1 week plan

- Everyday Discussion about topics / Technologies / doubt clearance.

- Git, UML, Java (classes, interfaces, exception handling, Java 17 features), Database Interaction (MySQL, JDBC), and Dropwizard.

- Every day with SME/Trainer discussion of Project progress & transformation based on UML & Technologies.
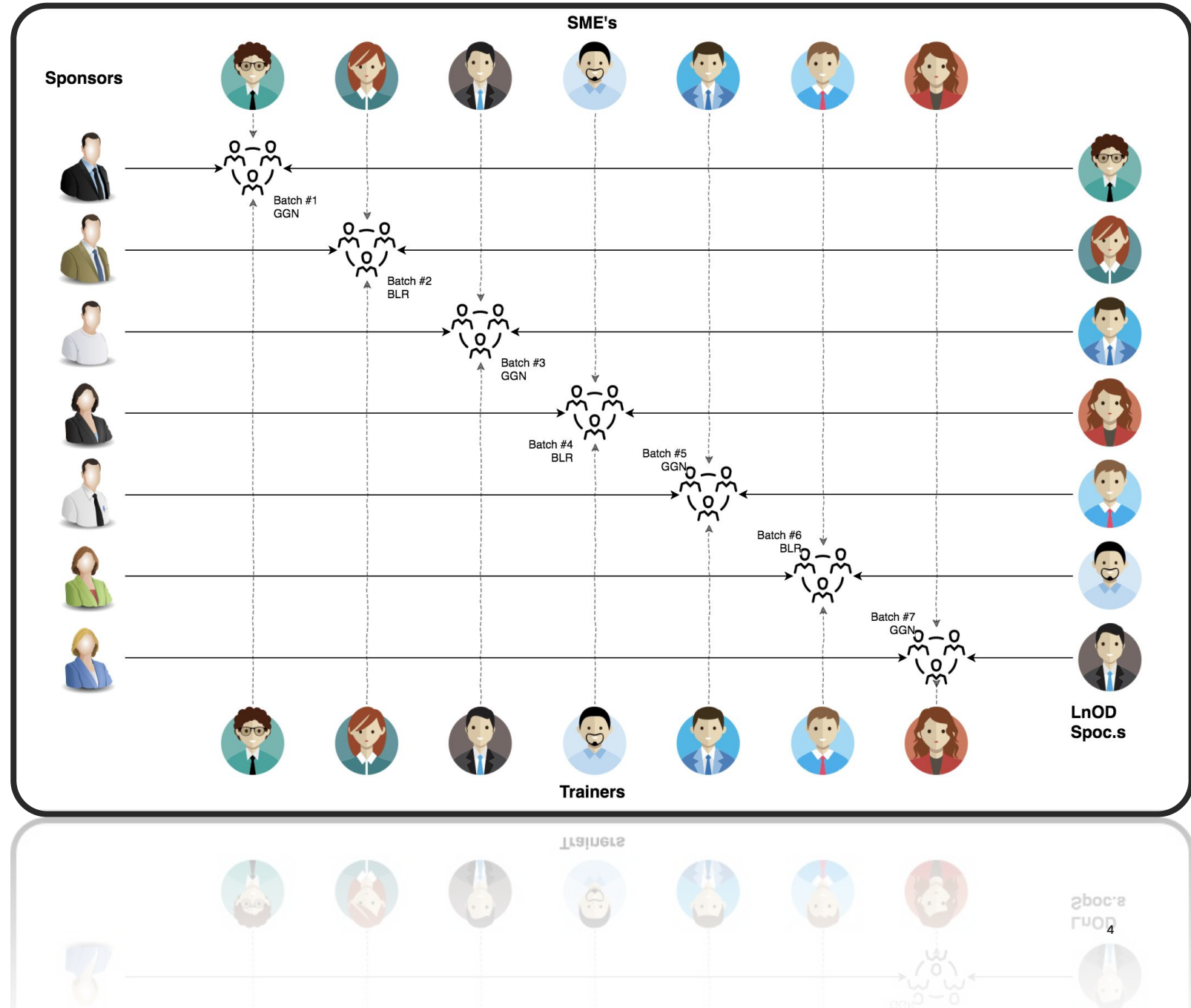
Stakeholders

1. Sponsors

    1. Flipkart

2. **SME**

    1. Mr. Amit Kumar

3. **Coordinators**

    1. Ms. Anushka khanna

Our next starts **NOW**

1 WEEK OF TRAINING + PROJECT DEMO

Flipkart

- 7 DAYS
- 168 HOURS
- 10080 MINUTES
- 604800 SECONDS
- LIMITLESS KNOWLEDGE

Agenda

Our
Journey

Flipkart

Comprehend

Tools

Process

Mindset

Demo

1 — Understanding Project Goals

2 — Decide the Technologies JAVA/REST/DropWizard/MySQL

3 — Design Thinking

4 — Adapting to a developer Mindset

5 — project Demo

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Our Team

GROUP-D

Flipkart
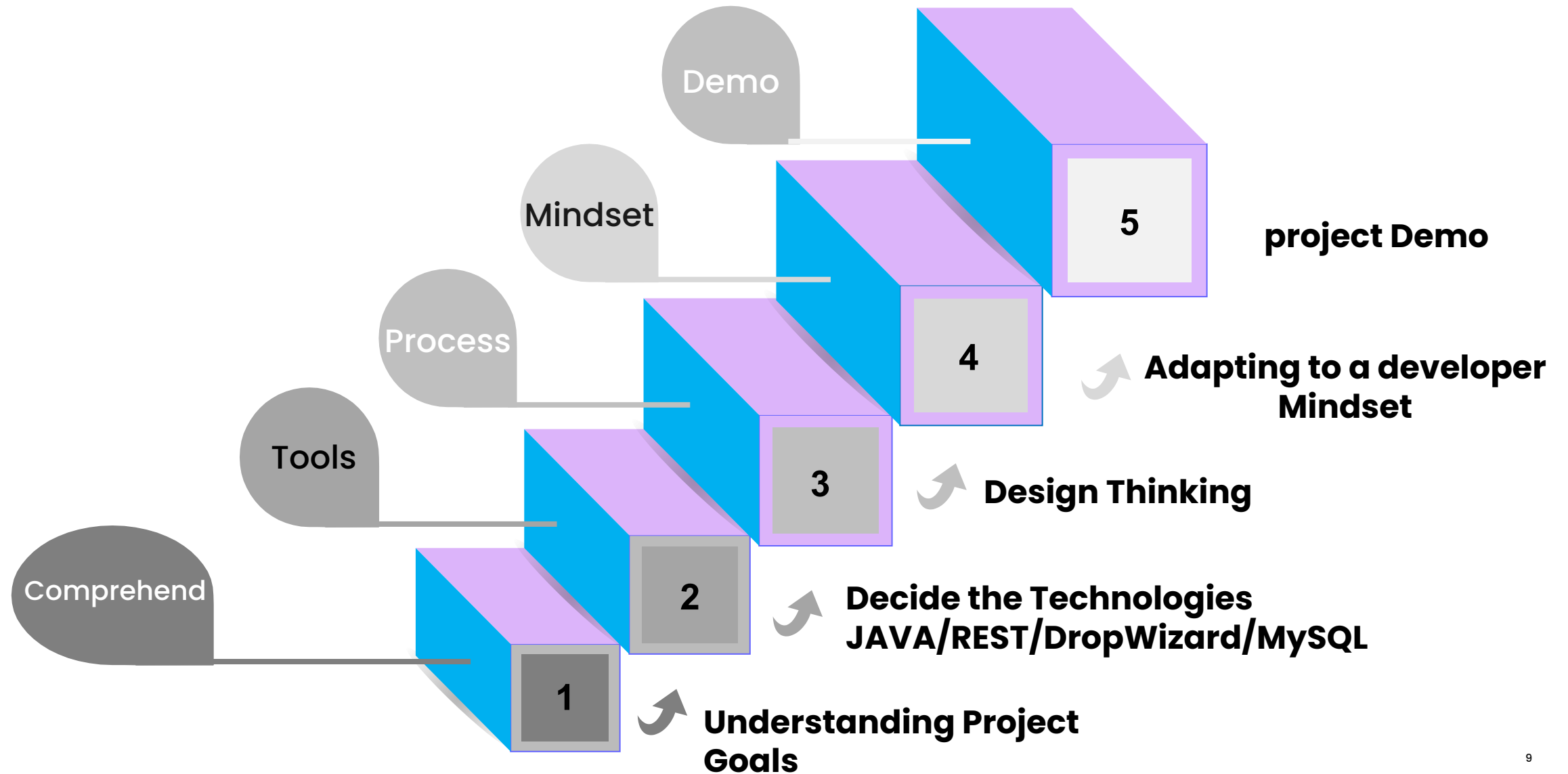
Amisha Kumari

Team Lead

Tanish Chugh

Mr. Smarty

Sravyasri Mortha

Ms. Dedicated

Podugu Deepika

Ms. Hardworking

Team Structure
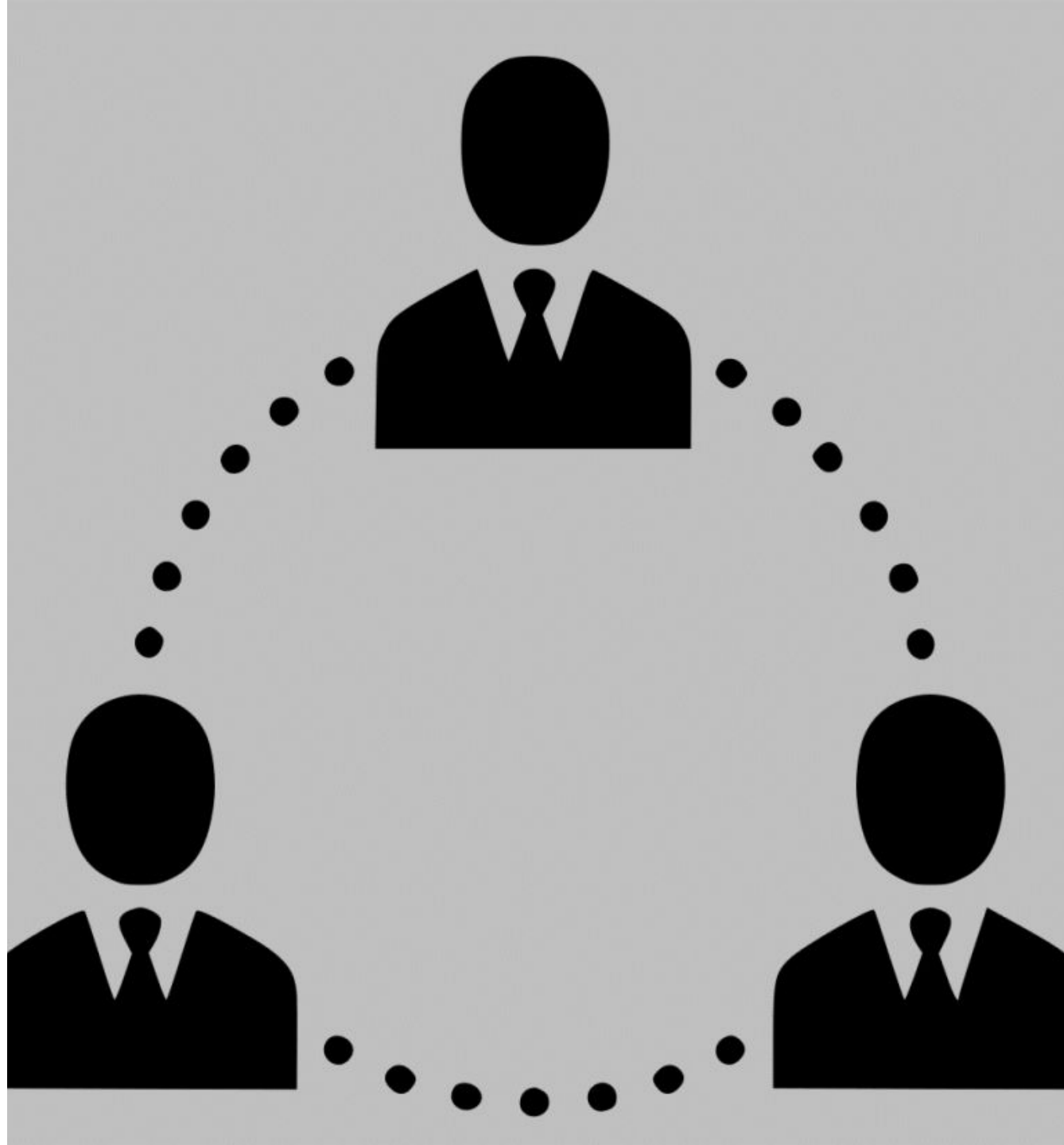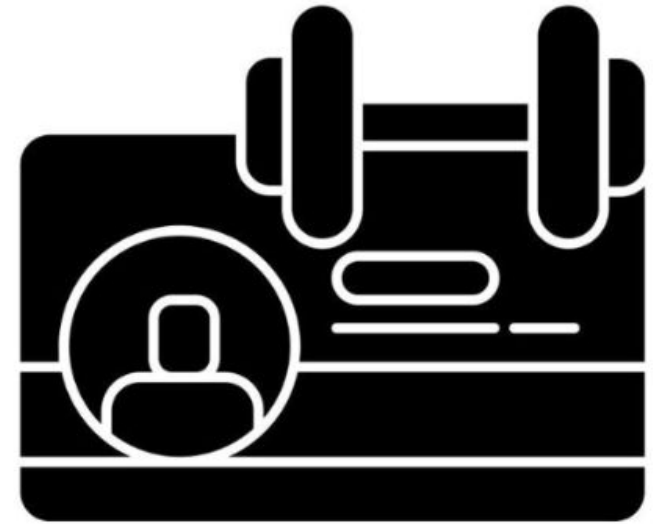
Project Goals

```
==========================================
             Welcome To FlipFit
==========================================

Type:
 1 -> Login
 2 -> Registration of Customer
 3 -> Registration of Gym Owner
 4 -> Exit
```

Our Vision

Flipkart

Our objective was to design a user satisfied FlipFit, application for Flipkart's fitness venture. The core challenge was to enable users to register, view gym availability (specifically for multiple centers and fixed-capacity hourly slots), and efficiently book workout sessions, all while ensuring accurate booking management and preventing double bookings.
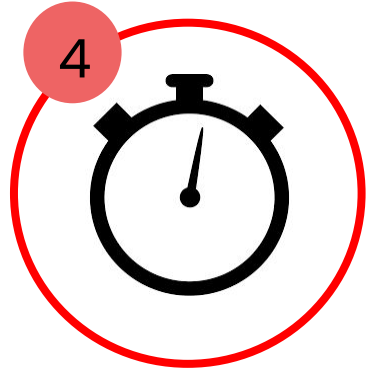
1 Quality

2 Security
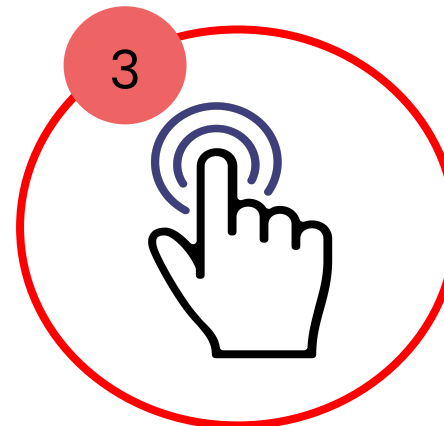
3 Interactivity

4 Speed

Timeline for 1 Week

Day 1

- Install necessary tools and establish team
- roles.
  Discuss problem statement, goals,
- and solutions.a
  Plan project milestones and deliverables.

Day 2

- Introduction to Git: Setup repository, branching,
- merging. Low-Level Design (LLD): Use Case, Class,
- Activity diagrams. Define application structure: Bean, Business, Client packages.

Day 3

- Explore JDK 17 features: Sealed classes, pattern
- matching.
  Divide application into
- packages: Bean, Business, Client.
  Start coding foundational components.

Day 4

- Connect MySQL database to FlipFit
- App.
  Implement DAO for
- database interaction.
  Develop business logic and login functionality.

Day 5

- Proceeded to MySql server and Workbench.
- Begin web-based application development.
- Improved the business logics.

Day 6

- Explored and implemented
- DropWizard.
- Prepared presentation.
  Explored High Level Design and its applications in web technologies.

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Engineering Practices

1. Version Control (Git/GitHub): Used Git for version control, feature branching, and regular commits.

- Benefits: Facilitates collaboration, tracks changes, and enables easy rollback.

2. UML Diagrams: Standardized on UML for system design, ensure clarity in diagrams, and use tools for consistency.

- Benefits: Aligns team understanding, supports documentation, and aids in communicating design.

3. Design Principles (SOLID): Applied SOLID principles (Single Responsibility, Open/Closed, Liskov Substitution, Interface Segregation, Dependency Inversion) for robust, maintainable code.

- Benefits: Improves code quality, scalability, and facilitates easier maintenance and extension.
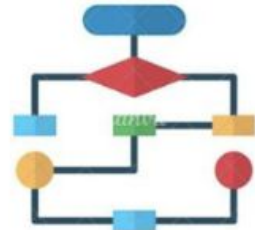
4. Business Modules and Packaging: Organized code into cohesive modules aligned with business domains, use appropriate packaging structures.
- Benefits: Enhances modularity, reduces dependencies, and improves code organization and reusability.

5. Documentation and Knowledge Sharing: Maintained comprehensive documentation and Conducted internal team meetings before working on any feature
- Benefits: promotes knowledge sharing, and serves as a reference for future development and maintenance.

Tech Stack

Flipkart
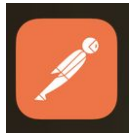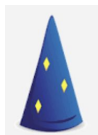
Backend

Core Language

Java

Development Tools And Testing
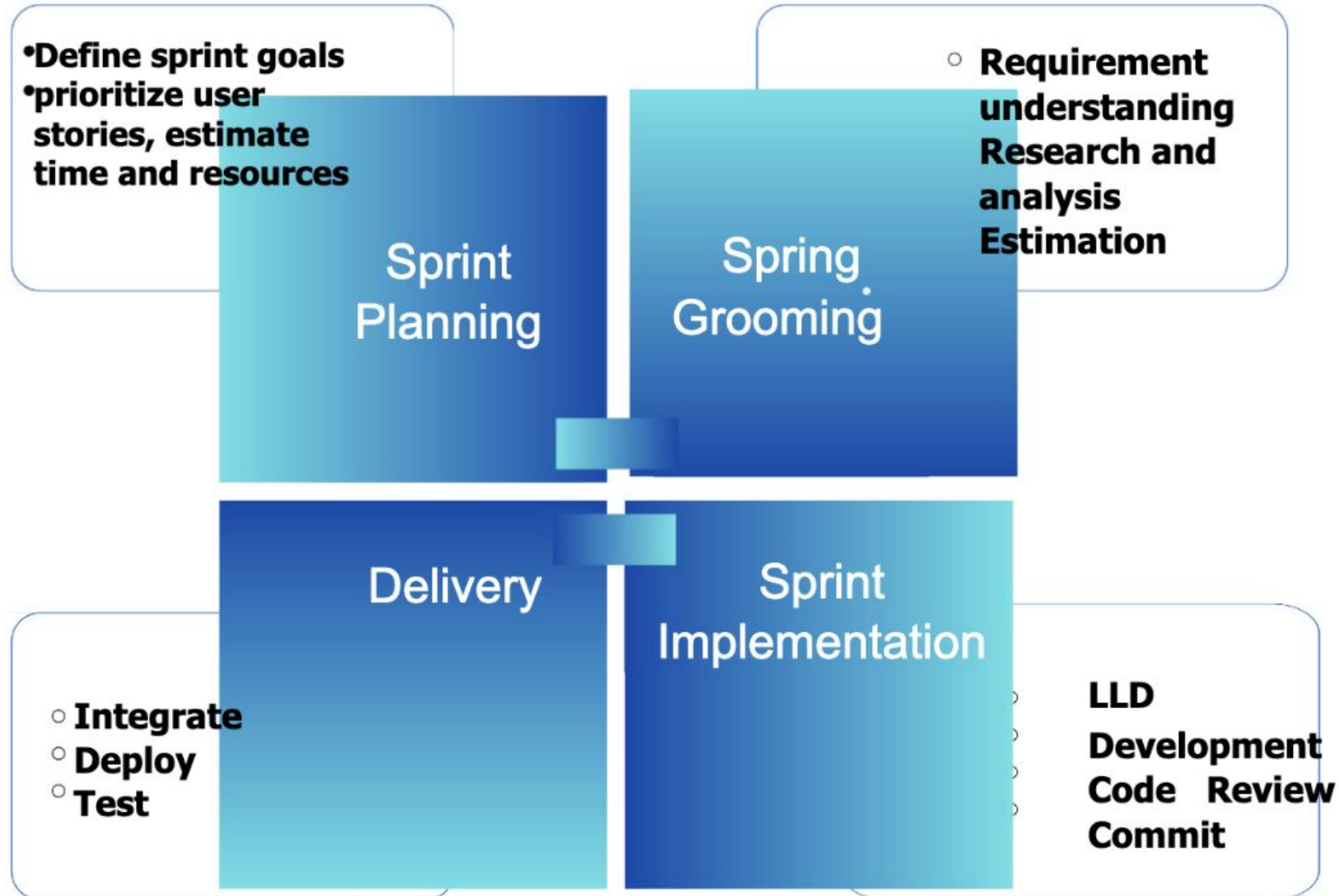
IntelliJ Idea

Postman

Git

Dropwizard

Data

SQL Database

MySQL

Administration tool

MySQL workbench

Development

Flipkart

- Define sprint goals
- prioritize user stories, estimate time and resources

○ Requirement understanding Research and analysis Estimation

Sprint Planning

Spring Grooming

Delivery

Sprint Implementation

○ Integrate
○ Deploy
○ Test

○ LLD
○ Development
○ Code Review
○ Commit

Challenges & Learnings
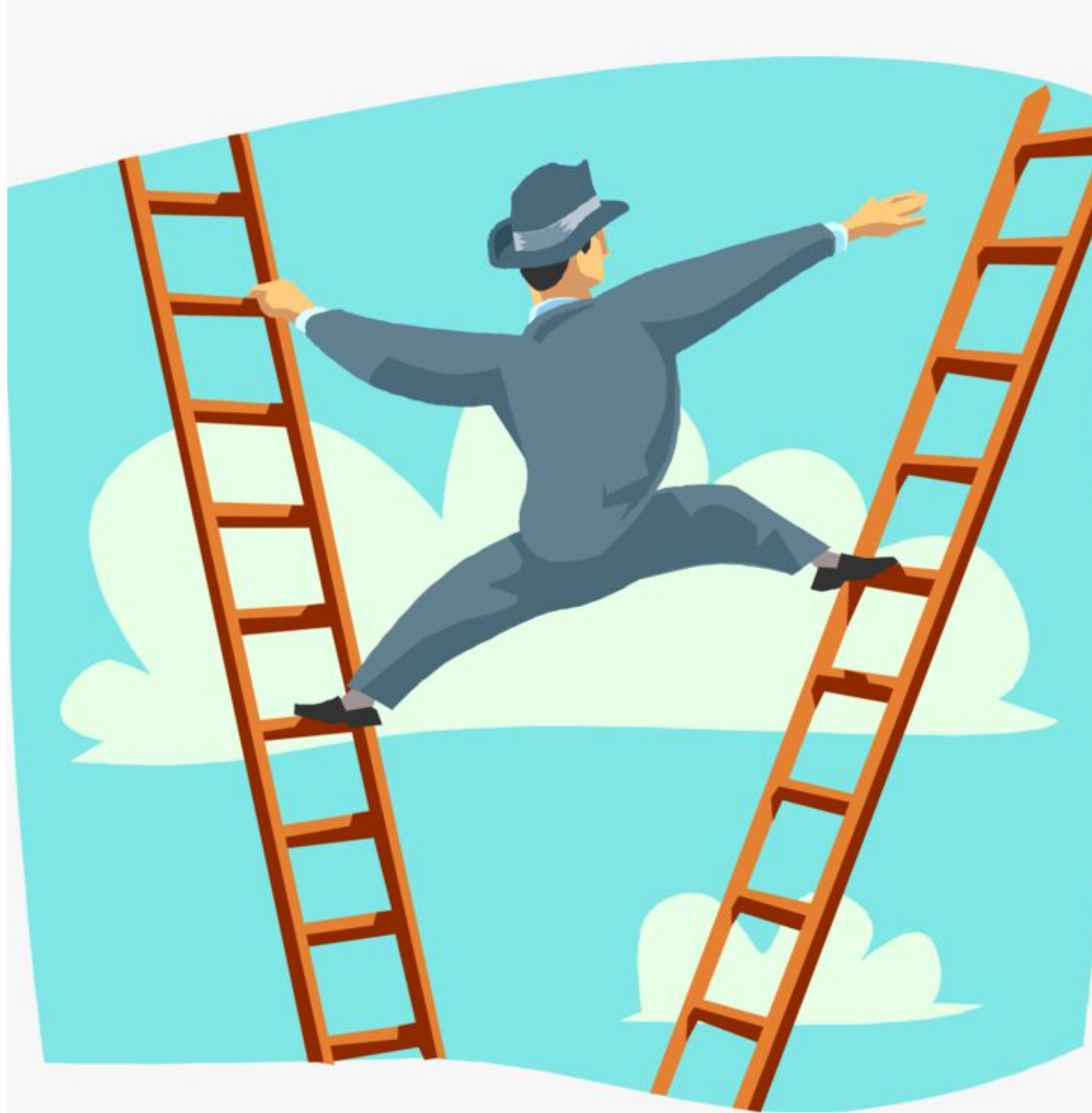
Demo

Questions

Thank you