

COURSE REGISTRATION SYSTEM

GROUP-A JEDI 2.0 Training



Trained By: Mr Amit Balyan

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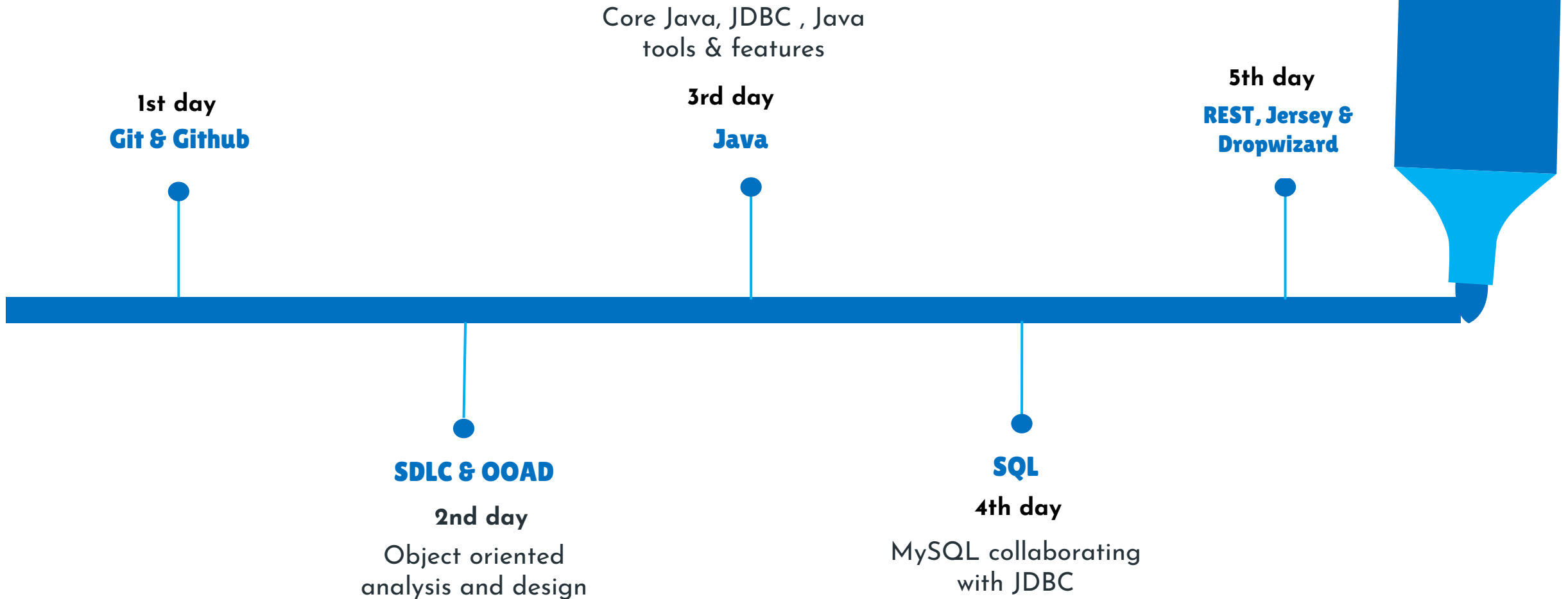
Pulkit Bhargava
Rudra Tiwari
Vedant Patel

JEDI 2.0 TRAINING : FRAMEWORK

- 1 week plan
- Discussed technologies like Git, Java Programming Language, SDLC, OOAD with UML Modelling, MYSQL etc. everyday.
- MCQ tests on alternate days based on the last topic taught and daily assignments.
- Problem statement followed throughout the journey as scope of project & transformation based on UML & Technologies.
- Daily project progress reports followed by in-depth work reviews and doubt-clearing sessions.
- Demonstration of final product where students will be assessed.

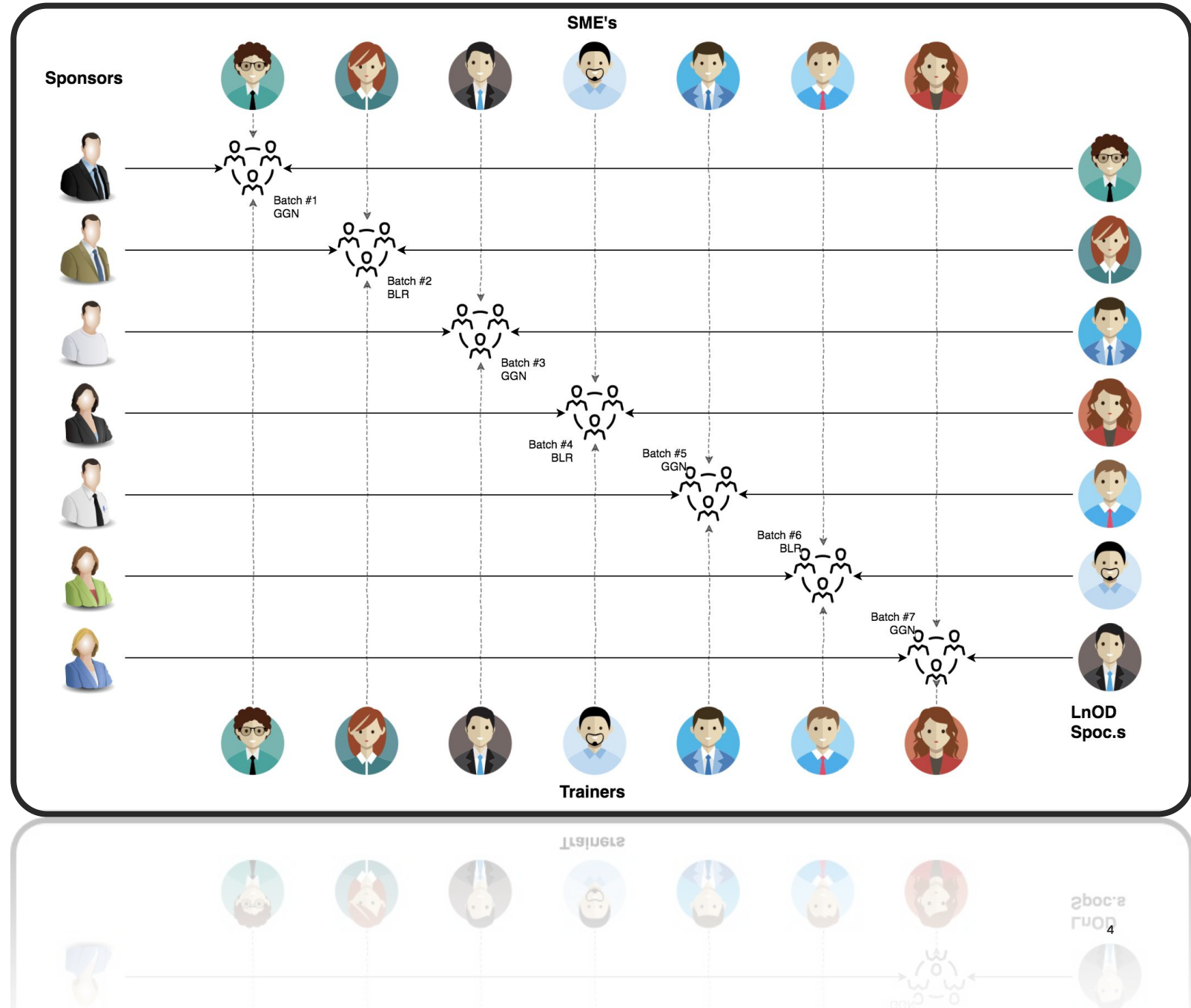


TRACK OF JEDI 2.0 TRAINING



STAKEHOLDERS

1. Sponsors
 1. Flipkart Internet Pvt Ltd.
2. SME's
 1. SMES
 2. Sharath Ramesha & Heena Bansal
3. Trainer: Mr. Amit Balyan



AGENDA

- 01 Our Journey
- 02 Project Goals
- 03 Engineering Practices
- 04 Tech Stack
- 05 Development
- 06 UML Modelling
- 07 Challenges & Learnings
- 08 Demo



Comprehend

Step 1

Understanding project objectives
and understanding the
fundamentals of Git and Linux

Tools

Step 2

Choosing the technologies:
JAVA/REST

Process

Step 3

UML Modelling and Design
Thinking

Mindset

Step 4

Learning different technologies
and Implementation

Demo

Step 5

Project Demonstration

OUR JOURNEY



PROJECT GOALS

To develop **COURSE REGISTRATION SYSTEM** utilising Java, allowing students to select courses, register using a variety of payment methods.

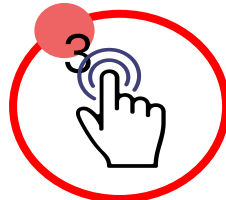
Other primary actors of the project includes admin and professor where professor can choose subjects to teach whereas admin manages the administration.



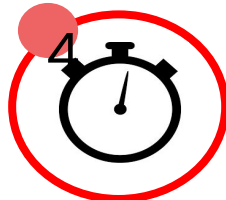
Quality



Security



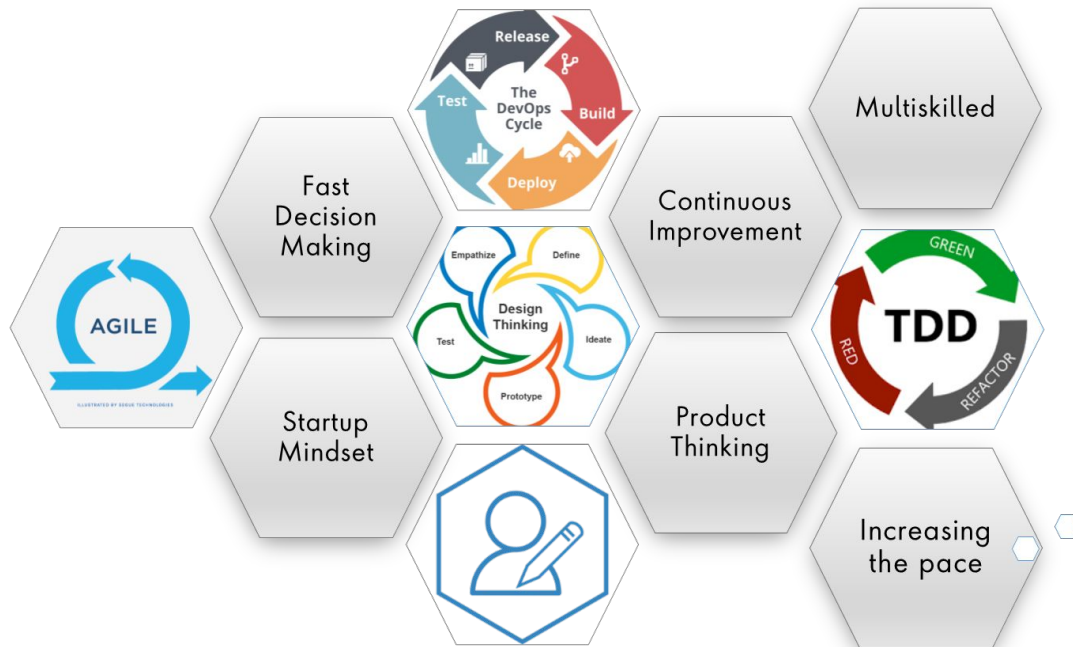
Interactivity



Speed



ENGINEERING PRACTICES



TECH STACK

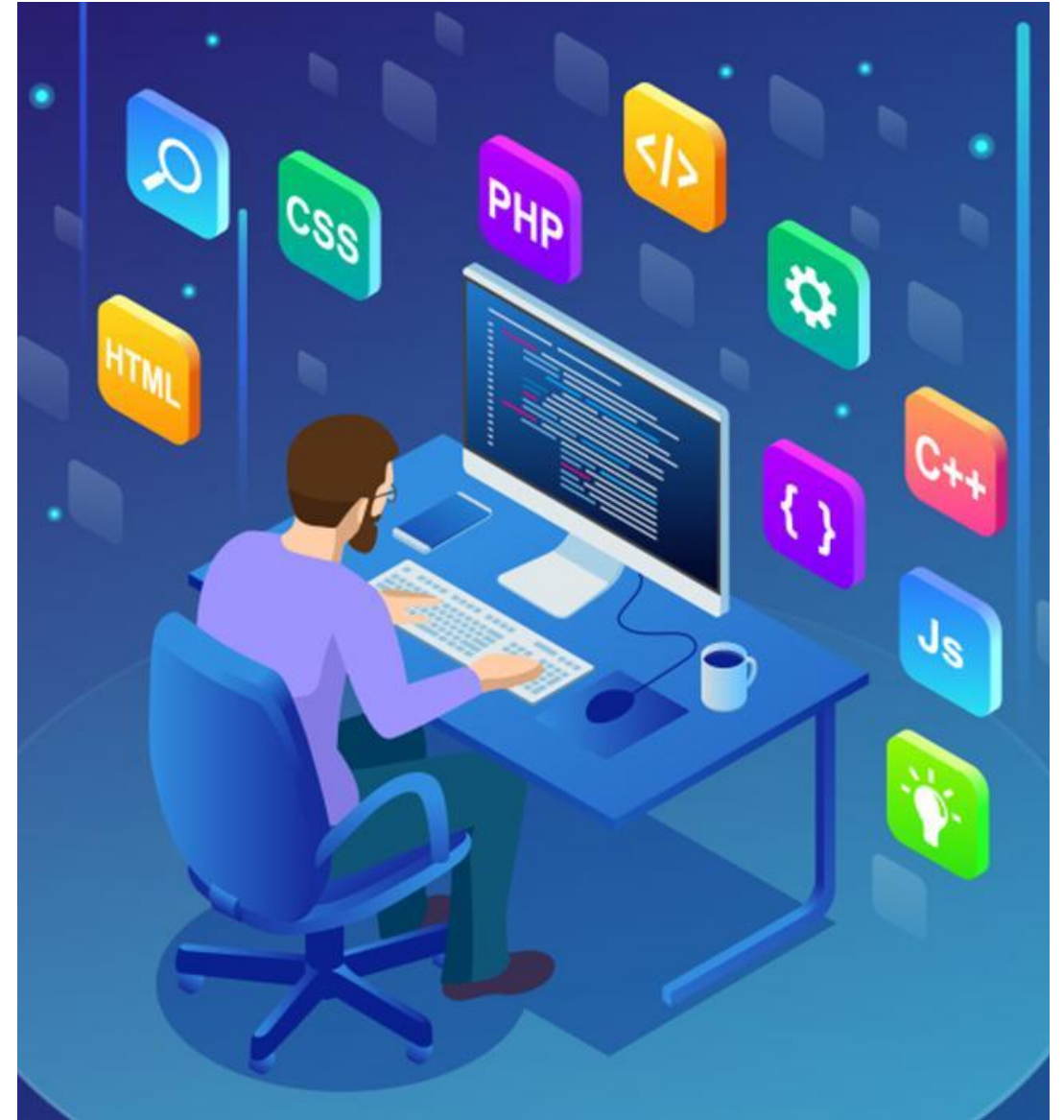


DROPWIZARD

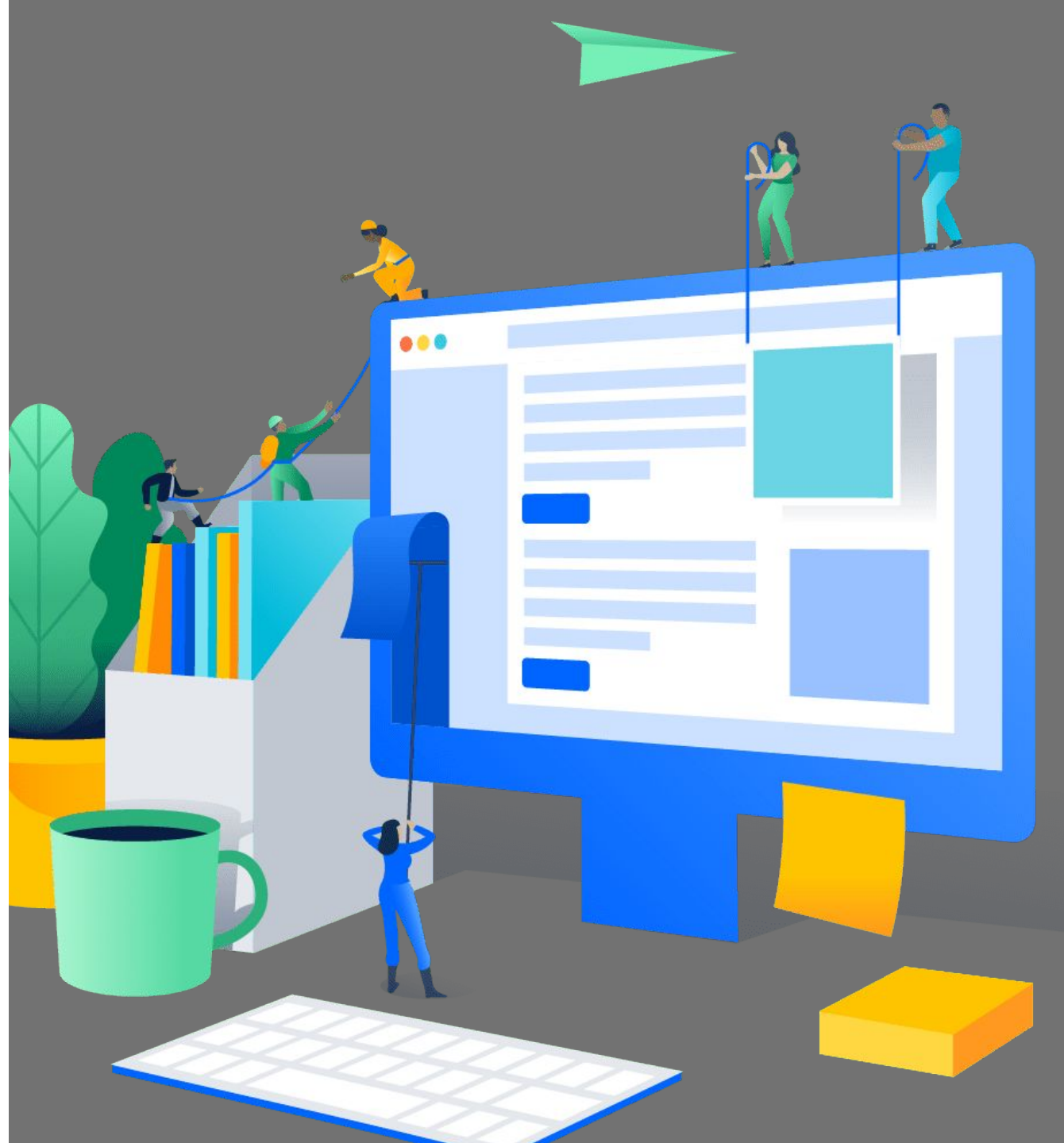


Jersey

RESTful Web Services in Java.



DEVELOPMENT

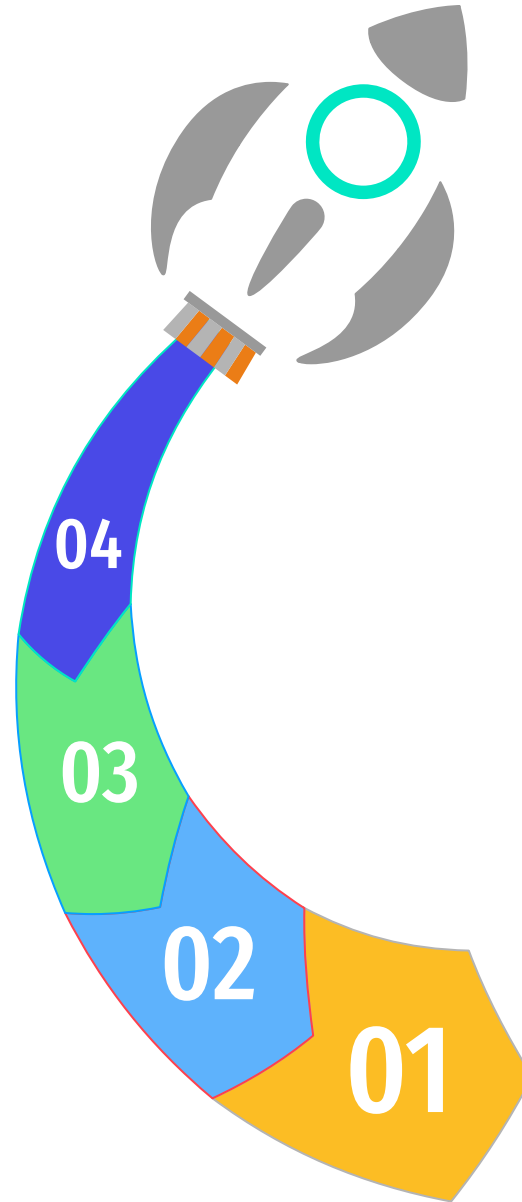


DEVELOPMENT LIFECYCLE : SDLC

Software Development Life Cycle (SDLC) is a process used by the software industry to plan, create and test high quality softwares.

We used Agile Development Model

Includes Testing phase for every development phase.



Project Delivery

Integrate, deploy, test, documentation

Project Implementation

Development, Code Review, Commit

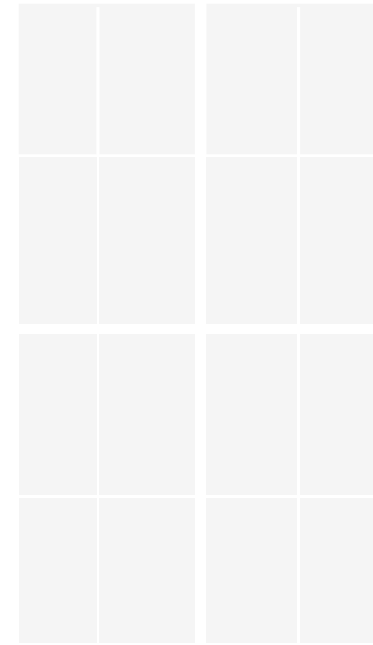
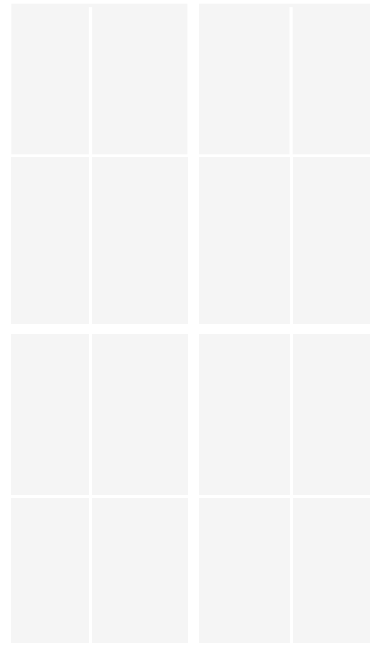
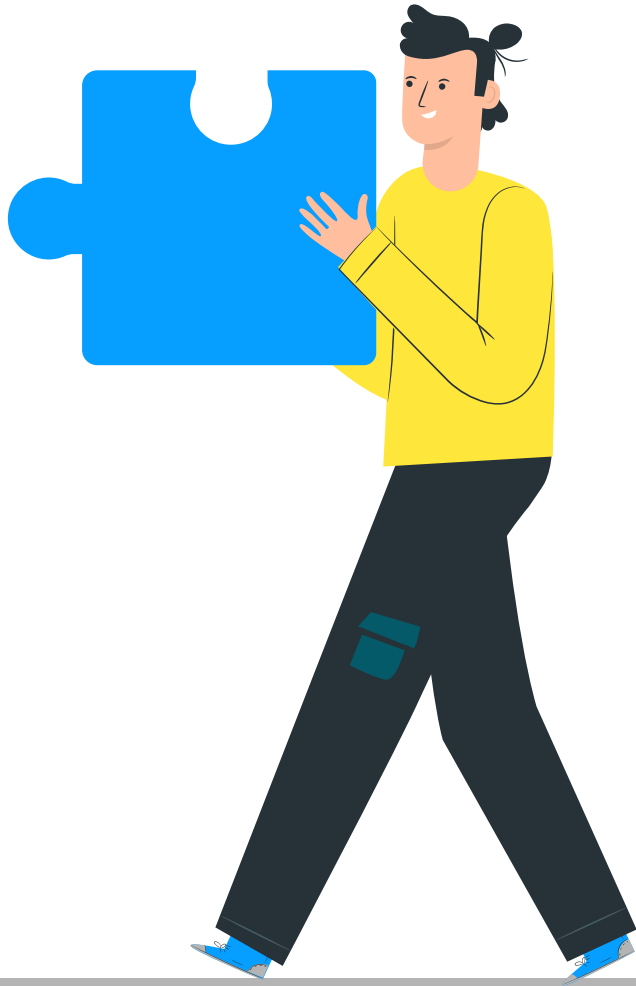
Project Grooming

Requirement understanding, analysis and estimation

Project Planning

Understanding scope and goals of project, UML modelling and database designing

UML MODELLING

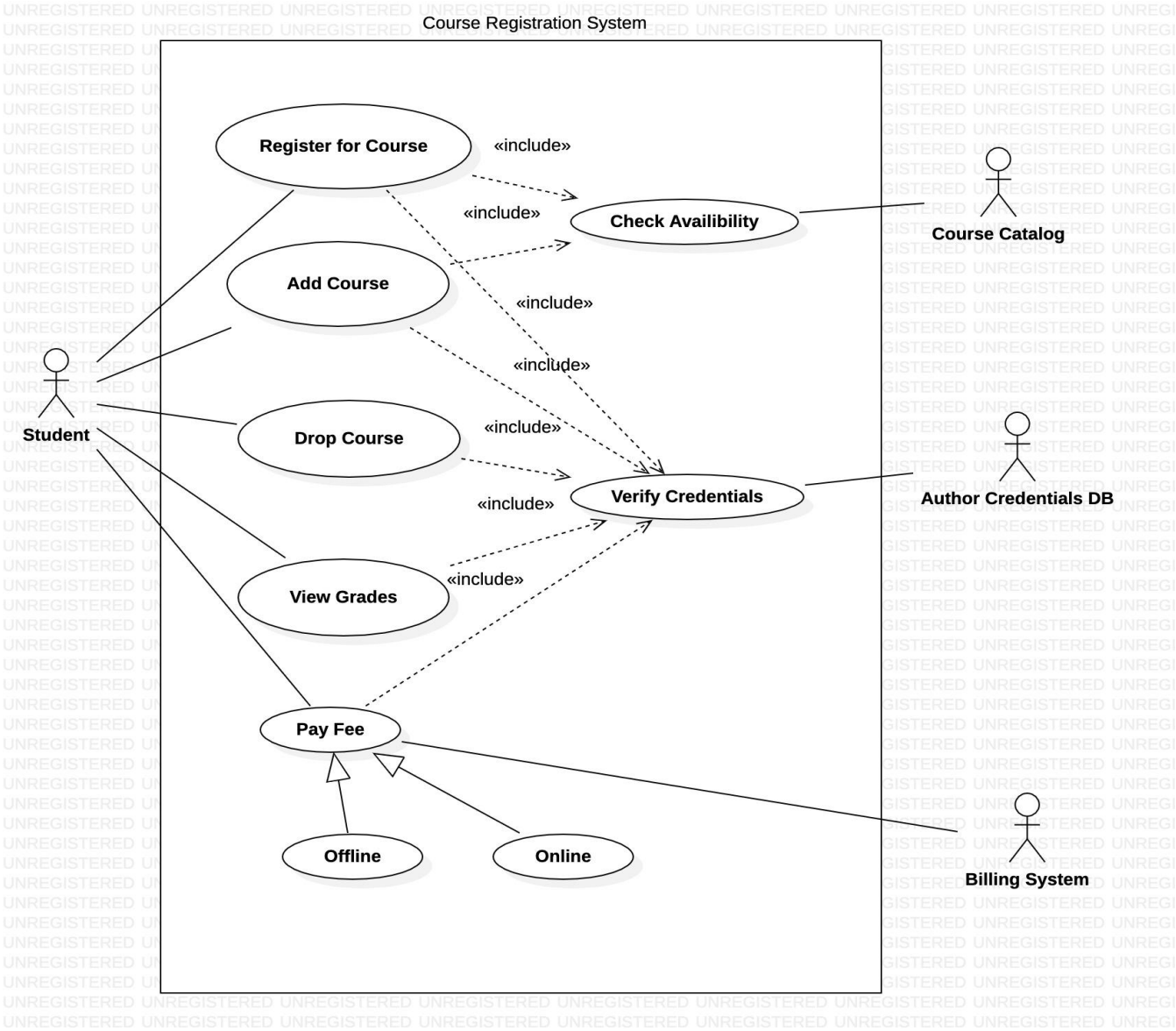


As a part of software designing phase, we analysed UML modelling language representing problem in graphical form as per best engineering practices.

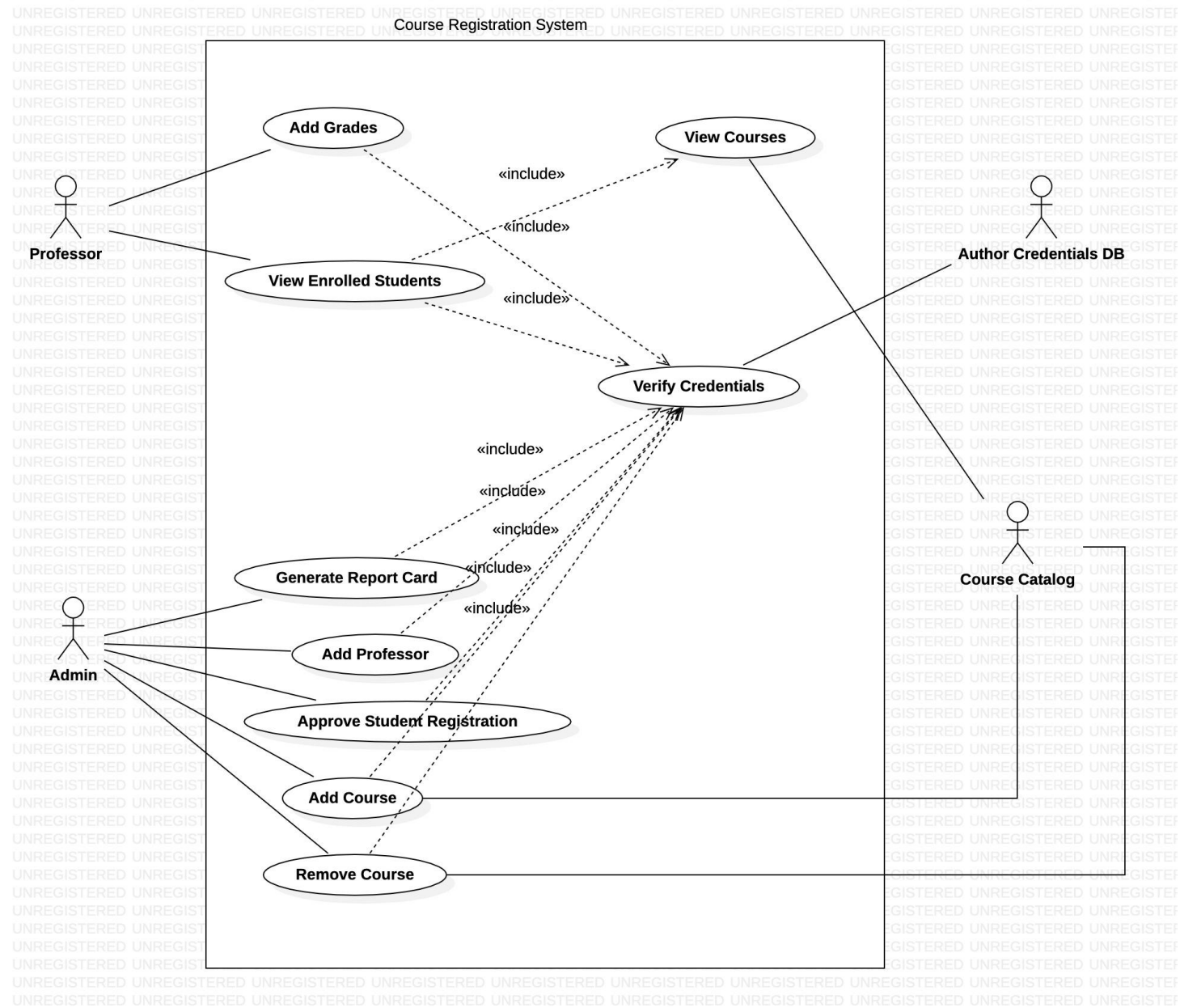


USE CASE DIAGRAMS

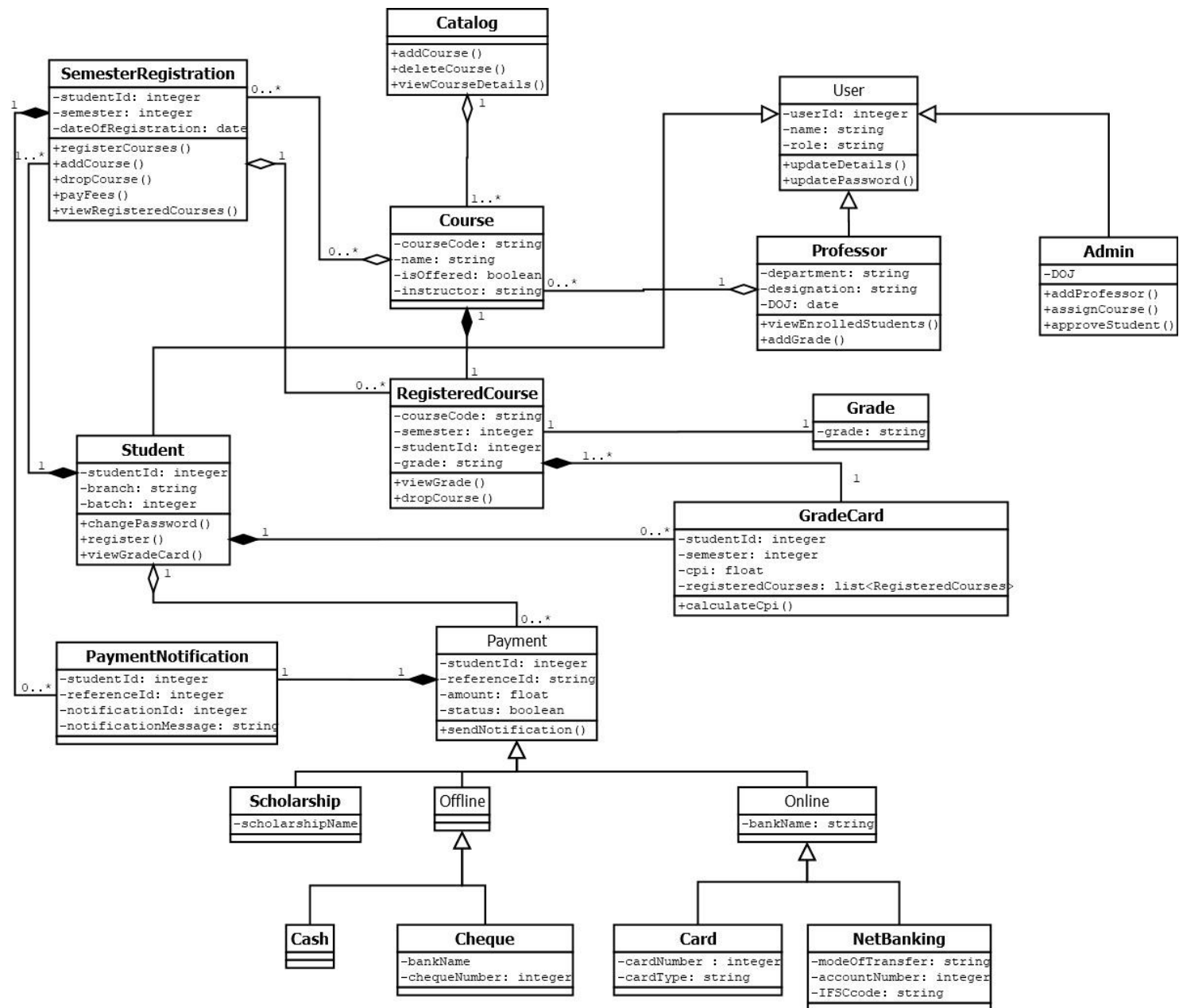
STUDENT



PROFESSOR & ADMIN



CLASS DIAGRAM



CHALLENGES

1. Access requirements
2. Setting up of environment
3. Resolving the errors and refactoring the code in case of major changes
4. Learning new technologies



TRANSFORMATION

1. Code writing got better with every single day.
2. Drastic improvement in the skills of database designing.
3. Different practices of debugging.
4. Documentation is important!



LEARNINGS

1. Hands on learning.
2. Learnt the best practices to write code in accordance with design patterns and OOD principles.
3. Learnt about “separation of concern”- how each class holds its own responsibility.
4. Hands on some on some brand-new frameworks and APIs.
5. Learned how OOAD may help with code flexibility by allowing changes to be made without affecting the entire project.



**Let's begin with
Demo...**





Thank you