



FlipFit Gym Service

Complete Gym Management and Slot Booking System

JEDI-GROUP-IOTA-DEVELOPMENT-FK

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1. KRISHNA (Group Leader)
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PRESENTATION AGENDA



- Project Goals
- Tech Stacks Learned
- Development Steps
- Challenges Faced
- Demo



**Experiment.
Learn. Grow**



**Work With
The Best**



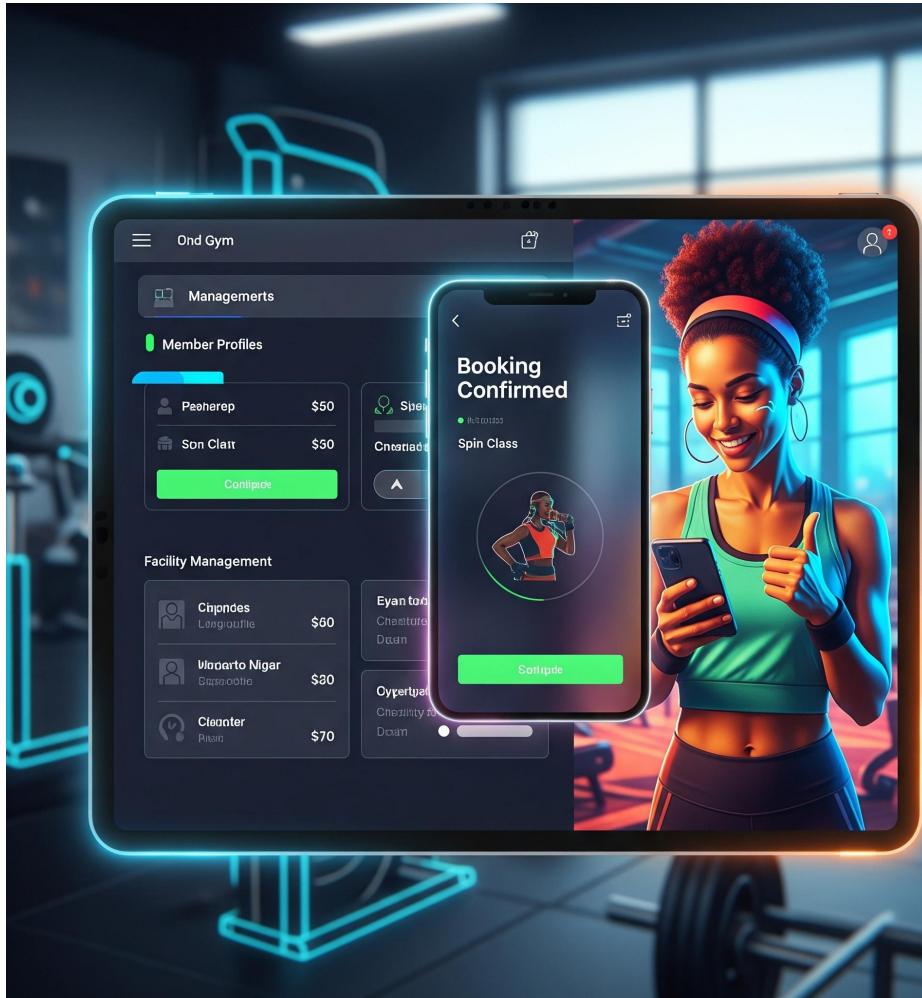
**Leave
A Mark**



We Care

Project Goals

To develop a comprehensive Gym Management System utilizing Java and associated tools and technologies, including Spring Tool Suite, MySQL, MySQL Workbench, Git, and Dropwizard. This system will enable gym owners to list their facilities and customers to efficiently book time slots, thereby optimizing the operations of the various gyms managed and authorized by an administrator.



TECH STACKS LEARNED

- STS
- IntelliJ
- Lucidchart
- PlantUML
- Maven



ROADMAP



ENGINEERING PRACTICES

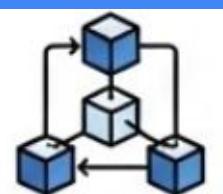
CLEAN CODE
WITH
COMMENTS



VERSION CONTROL
USING GIT



OOP
IMPLEMENTATION



EXCEPTION
HANDLING



MODULARIZATION



DEVELOPMENT STEPS



1. Install and initialize Git, MySQL, and Maven on all laptops.



2. Analyze the problem statement and design the application using UML artifacts such as Use Case Diagrams, Activity Diagrams, and Class Diagrams.



3. Develop a menu-driven Java application utilizing standard Java collections for data storage.



4. Implement JDBC for data persistence and retrieval from the MySQL database.



5. Integrate comprehensive exception handling within the application.



6. Refactor the application to a RESTful service using the Dropwizard framework, incorporating modern Java features such as lambda expressions.



7. Generate comprehensive documentation utilizing the STS documentation tool.

DEVELOPMENT TIMELINE: FROM INITIAL SETUP TO DEMO



21st
Initial Laptop
setup and creation
of UML artifacts.

22nd
UML review was
done and GIT
commands were
taught.

23rd
Different parts of a
JAVA project were
taught and Simple
menu based Flipfit
application using
collections was given
as assignment.

27th
Learnt JDBC and also
implemented mysql
database. Also
Exception handling
was learnt and
implemented

28th
Learned about new
java features,
created
documentation
and implemented
Dropwizard.

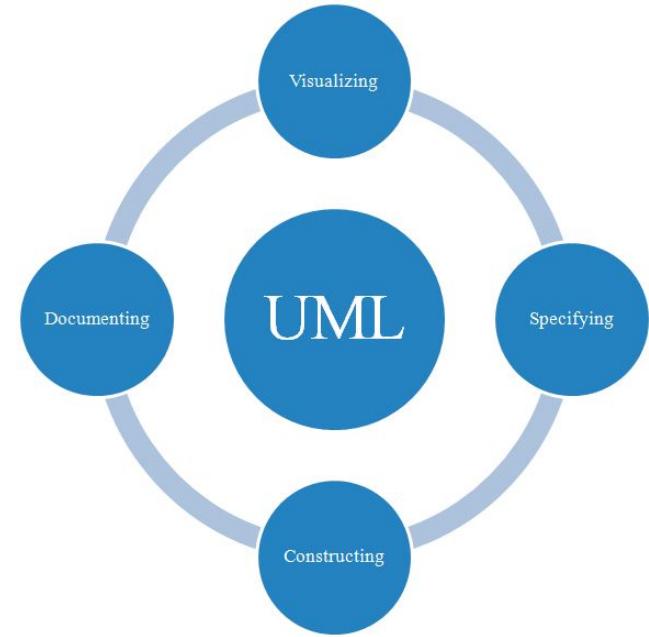
CHALLENGES FACED

Challenge 	Resolution / Key Learning (Solution) 
Unexpected Bugs	Implemented comprehensive exception handling and adopted modularization to isolate issues, leading to cleaner, more stable code.
New Technologies	Rapidly upskilled on frameworks like Dropwizard and tools like PlantUML, demonstrating the team's adaptability and commitment to modern standards.
Tight Deadlines	Leveraged efficient version control (Git) and clear task delegation to maintain momentum and successfully meet all project milestones.
Team Collaboration	Established clear communication channels and defined roles (Group Leader, Sub Group Leader) to ensure aligned efforts and effective teamwork.



DEMO

- [GIT REPO](#)
- [UML Artifacts](#)





Thank You!

