

wibmo



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# Framework for 25 days :

## Week 1



**Fundamentals of Java**



**Introduction to Design Principles and Introduction to UML Artifacts**



**Introduction To POS application.**



**Introduction to Git & Github and Introduction to JDBC**

# Framework for 25 days :

## Week 2



**Introduction to Spring  
& Spring-Boot**



**Introduction to  
Postman**



**Migration of POS  
application to  
REST Application**



**Introduction to JPA &  
Migration of REST-  
Application to JPA  
Application**

# Framework for 25 days :

## Week 3



**Introduction  
to  
Microservice  
s**



**Introduction to  
Netflix OSS  
Architecture.**



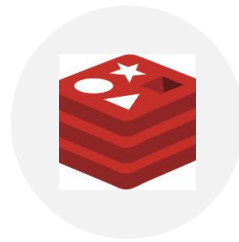
**Migration of JPA  
Application to  
Microservice based Appl  
ication**

# Framework for 25 days :

## Week 4



**Introduction to  
Kafka**



**Introduction  
to Redis**



**Introduction to Jwt**



**Integration of Kafka,  
Redis & JWT in the  
microservices**

# Stake-Holders:

## Sponsors:

- **Wibmo**

## Subject Matter Expert:

- **Amit Balyan**

## HR & Leaders:

- **Anvita Rai**
- **Animesh Jha**



# 25 Days of Training and Project Demo





# Agenda

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



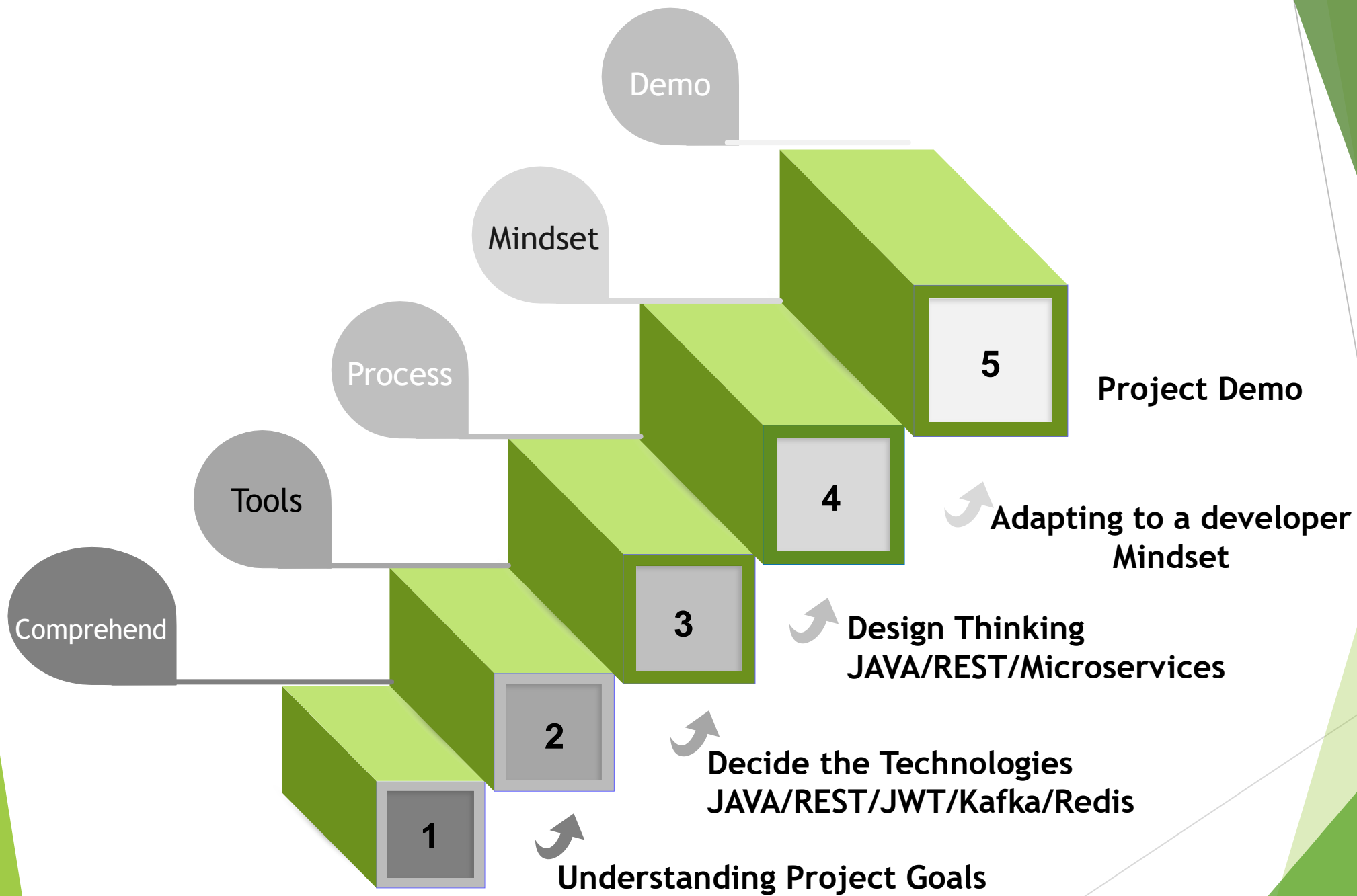
# Our Journey

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# Team and Team Structure





Dixit



Samyak



Siddharth



Satwika

# CRS Microservice Development





# Vision



To build a dynamic client-server-based system that will use modern technologies to make the system more user-friendly and efficient for the users.

The system is built in such a way that it utilizes the SOLID design principles to make a Scalable, Reusable and Maintainable system.

# Engineering Practices





SOLID Principles

Containerization

Version Control

REST API

Microservice  
Based Design  
Pattern

Security

Unit Testing

Documentation

Dependency  
Injection

Dependency  
Management

Caching

# Tech Stack



# Backend

Core Language



Caching



Framework



Security



Application Server



API Gateway



Testing



Service Registry



# Data

SQL Database



# Tools

Documentation



SCM



# Development





## UML ARTIFACTS

Use case diagram  
Class diagram  
Activity diagram



## POS

Desktop Application  
JDBC



## REST

Web Application  
JPA



## MICRO SERVICES

Eureka  
Api-Gateway  
Spring Security  
Kafka  
Redis

# Challenges and Learnings



# Challenges



**Legacy system  
migration**



**Maintainability**



**Security**



**Data Integrity**



**Performance  
Optimization**



**Change  
Management**

# Learning

Technology  
Proficiency

Database  
Management

Project  
Management

User centered  
Design

Troubleshooting

Communication

Agile  
Development

Problem Solving

Teamwork

Continuous  
Improvement



# Project Demo

```
mirror_mod = modifier_ob.  
#set mirror object to mirror  
mirror_mod.mirror_object =  
operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True
```

```
#selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly
```

--- OPERATOR CLASSES ---

```
types.Operator):  
on X mirror to the selected  
object.mirror_mirror_x"  
mirror X"
```

```
context):  
context.active_object is not
```



**!! Thank You !!**