

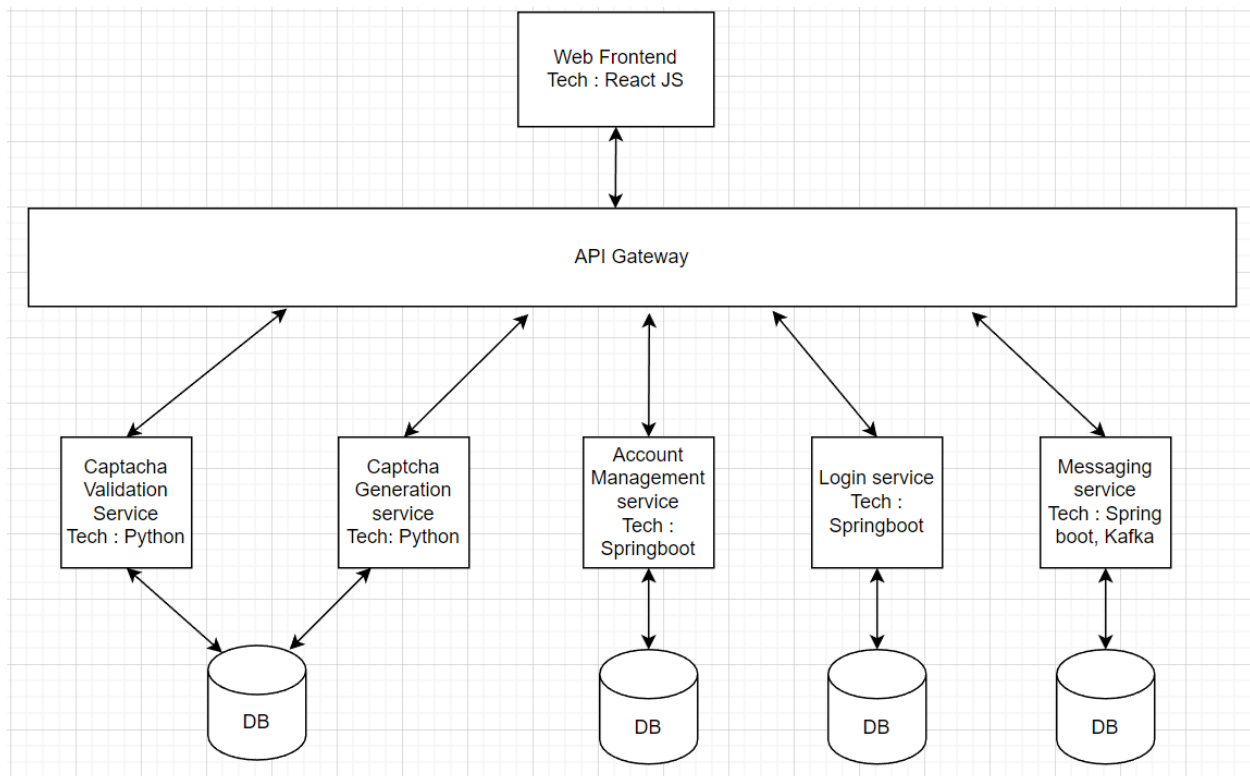
## SCALABLE SERVICES ASSIGNMENT- GROUP 32

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### About:

MoBank is an application visioned for secured banking. Main concentration has been given to security. Security services and captcha services can be seen included in the architecture.

### 1) Architectural Diagram:



In the above Microservice architecture, various services of MoBank are visualized. As security is main envision of the application more importance will be given to captcha related services and other security services

### Goal:

To improvise security, Captcha services are developed and deployed

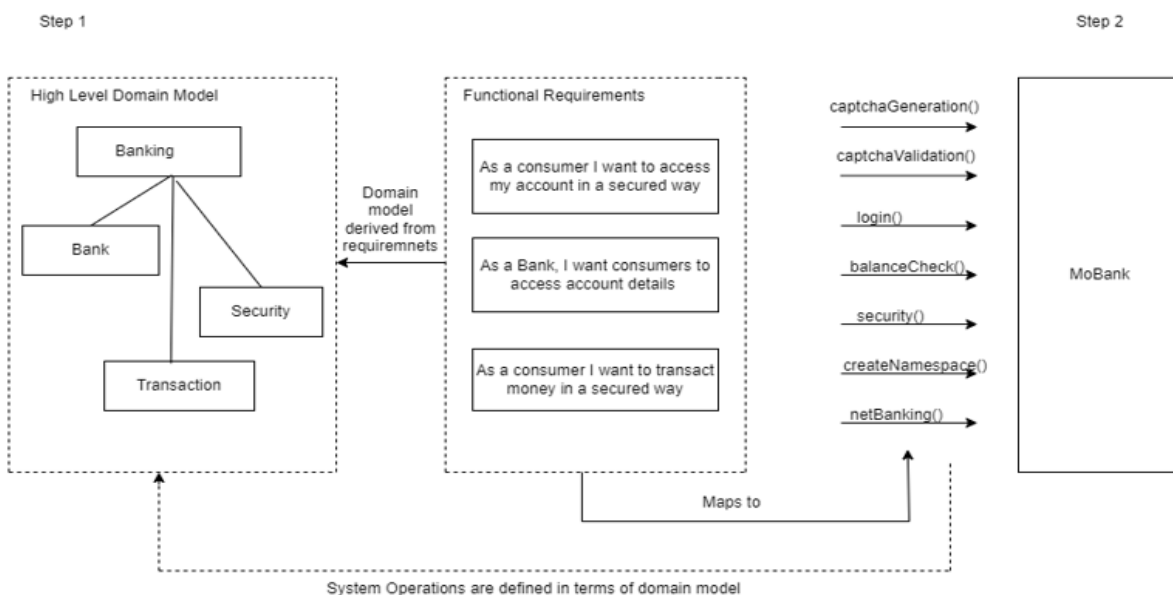
### Step 1: Identify System Operations

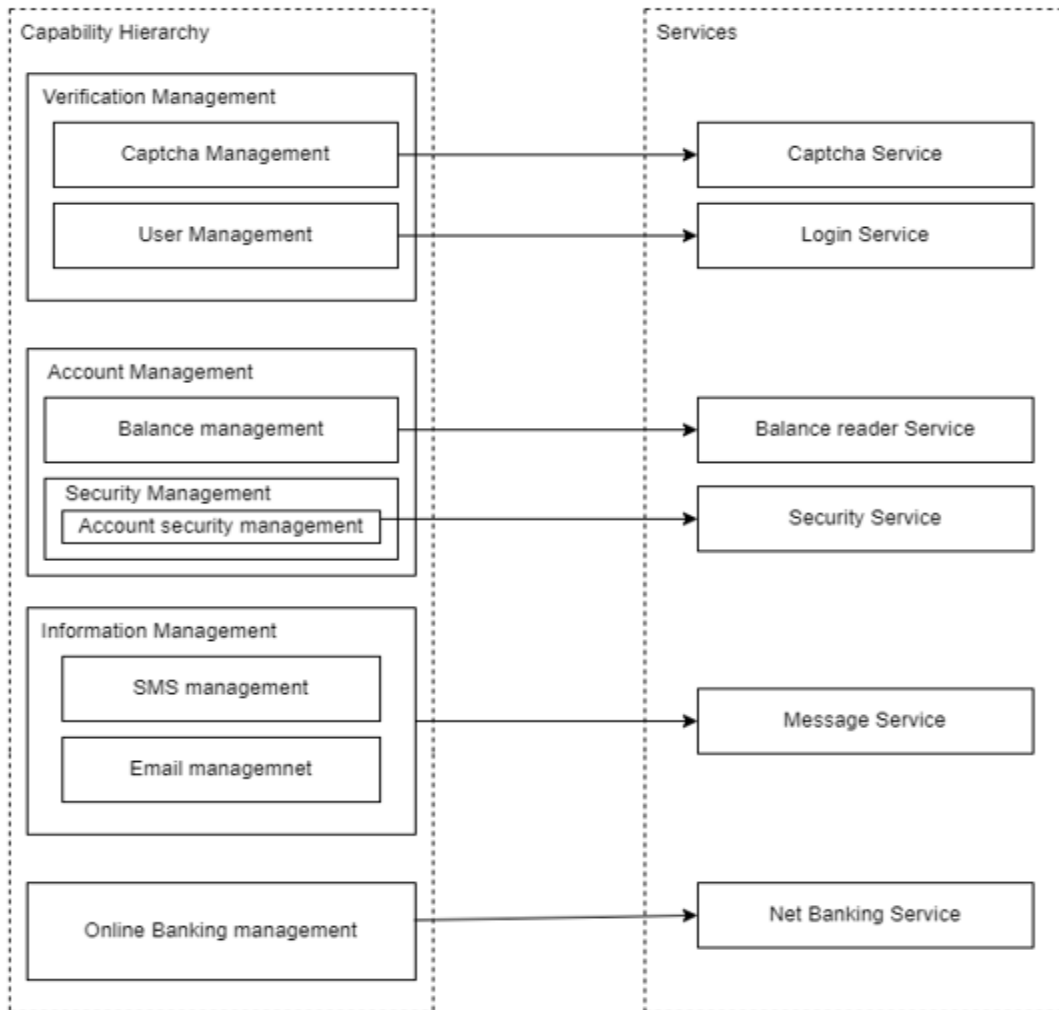
A system operation is an abstraction of a request that the application must handle. It's either a command, which updates data, or a query, which retrieves data.

### Step 2: decomposition into services (Strategies to be applied)

### Step 3: determine each service's API

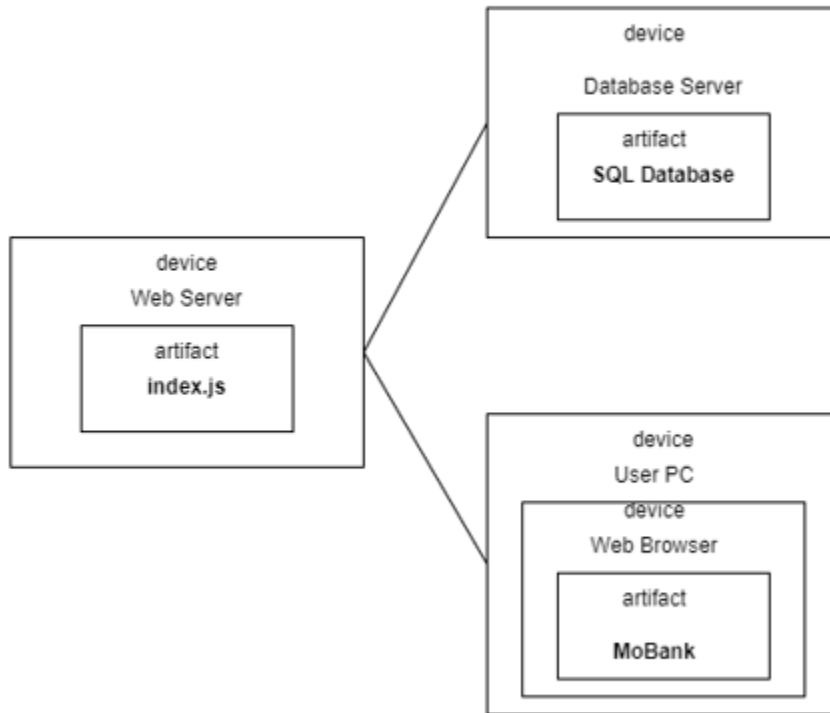
### Step 1:



**Step 2:****Step 3:**

SERVICES	OPERATIONS
Captcha Service	captchaGeneration() captchaValidation()
Login Service	login()
Balance reader Service	balanceCheck()
Security Service	security() createNamespace()
Message Service	sendMessage()
Net Banking Service	netBanking()

## Deployment Diagram:



## Screenshots for API responses:

The screenshot shows a web browser displaying a captcha image. The URL in the address bar is `http://127.0.0.1:1234/captcha`. The page content is a large, distorted captcha image with the text `b4d7c` visible at the bottom.

http://127.0.0.1:1234/captchaGenerate

POST http://127.0.0.1:1234/captchaGenerate Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 26 ms Size: 178 B Save Response

Pretty Raw Preview Visualize

b126VP

Explanation Video link - [https://youtu.be/d\\_dmXzh1zuA](https://youtu.be/d_dmXzh1zuA)

Github link - [https://github.com/charan-9330/Scalable\\_Service\\_Assignment\\_Group32](https://github.com/charan-9330/Scalable_Service_Assignment_Group32)