

A woman with long blonde hair and glasses is focused on her work, leaning over a desk with a laptop. The background is a blurred office environment with other people. The text is overlaid on the image in a clean, modern font.

# PORTFOLIO

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## NICHE INTEGRATED TECHNO SOLUTION

### *SERVICES*



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About

# NIT SOLUTION

NICHE INTEGRATED TECHNO SOLUTION PVT LTD is a IT Consulting firm as well as a Software development company which belongs to the parent company Cherry on Tech.

It develops softwares with several high level languages, i.e. Java, Python, Php including their frameworks like Spring, Springboot, Laravel, Codeigniter etc. Its also work with HTML, Angular, React js, Node js, CSS, SCSS, Ionic etc. Cloud technologies like AWS, Oracle etc are also in this list.

NIT Solution Pvt Ltd works with so many MNC's Like TCS, INFOSYS, COGNIGENT and many more. Serve them experience resources for their projects. They use to recruit capable and efficient resources. Train them with experienced faculties with in hand projects as per their required technologies. Then place or outsource them to MNC's with a good industry level package.

Both the consulting and development related are managed with highly experienced and efficient resources to give the client a well arranged, time efficient and well decorated service.

*WE WORK  
WITH*

# **TECH GIANT**

# **INFOSYS**



*WE ALSO  
WORK WITH*

**GLOBAL IT LEAD**

**TCS**



**TATA  
CONSULTANCY  
SERVICES**

## Front-End Development



Bootstrap



HTML



Angular



Materialize



Jquery



Sass



Javascript



Css

## Back-End Development



Java



Spring



Springboot



MongoDB



NodeJS



AWS



PHP



CodeIgniter



Laravel



Azzure



GCP



Aurora



Influx



MySQL



PostgreSQL



API Service



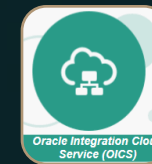
Python



SOA



OSB



OIC

# We Outsource Our Resources

By Tieg Up With Several MNC's



## That Makes Our Resources

**Efficient**

**Flexible**

**Pro-Active**

**Time-Saver**

The Companies working with us -



INFOSYS



DZARO SOLUTION



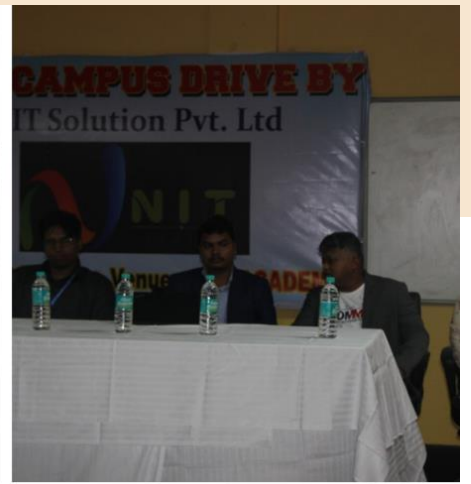
OPTIVALUE



TELEOLABS

WE  
ALSO HIRE  
RESOURCES

REMOTELY and PERMANENTLY



# HM SHOPPING

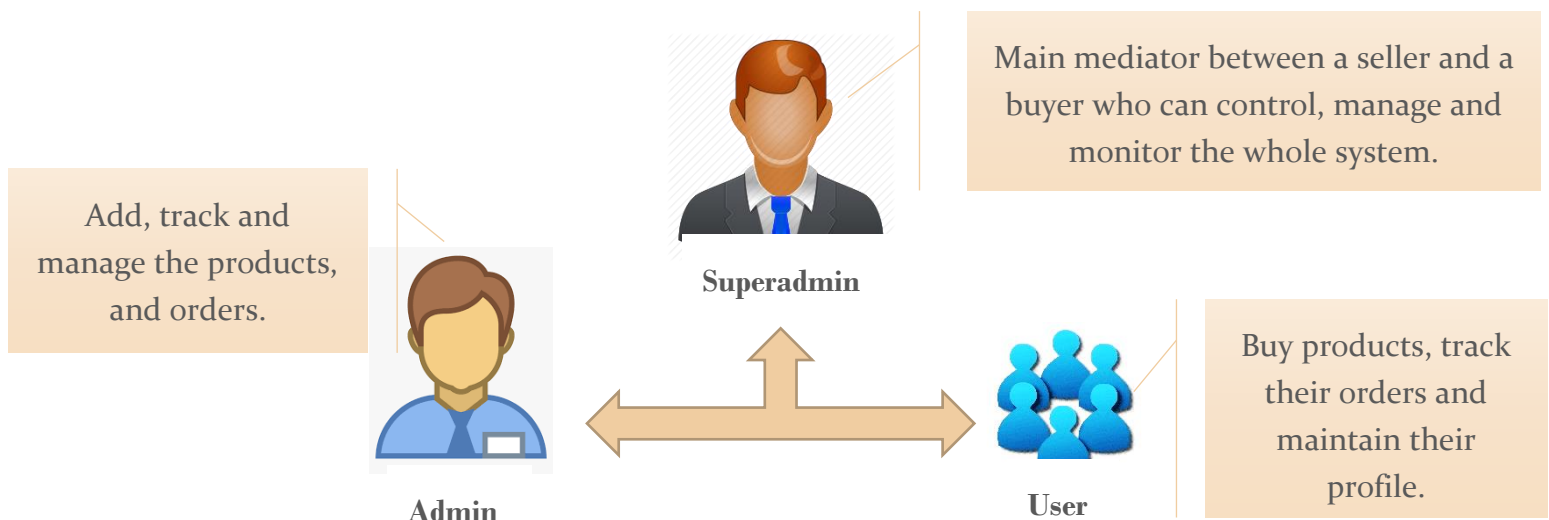
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## About HM Shopping

HM Shopping is the website where one can sell or buy home made products. Hm Shopping is made actually for connecting a home-based product seller to a buyer easily with a online platform. One can make anything like Food, Garments, Grocery etc. at home and sell that on HM Shopping easily just by making an account. The Project is about an initiative to give a platform to the creative persons of our society by which they can spread their creativity through their hand-made things to a larger audience.

The project is actually made with a three-module architecture, are the followings



# HM SHOPPING WEB APP

## Superadmin Panel

Register

Login

Forget Password

Dashboard

**Order List:** Status wise listing of order details section.

**Order Track:** Order status can be seen in this section.

### Frontend:

- We use **Bootstrap 4**, **Jquery**, and several javascript likely **Moment**, **Slick**, **Zepto** etc to make UI flawless, attractive and user friendly.

### Backend:

- Here we have used "**Laravel**" framework at the Backend architecture.
- With the **Laravel ORM** concept, it's been easy to make the whole system Tense to Dynamic.
- By using **JWT** token we have made every payload more secure with encryption. With each page reload the token has to be verified every time.
- **MySQL** has been used to store the data in well form structure that we can access and manage data properly with ease.

The registration system does not exist, but the credential can be updated. Initial credentials are pre-input from the developer side by Laravel seeder.

Superadmin can login by verifying the pre-input email id and password.

Each time the Superadmin logs in, a **JWT** token will be generated and validated to secure the payload in an encrypted format

If Superadmin forgets password, he/she can reset password by validating OTP sent to pre-input email.

**Admin:** Monitor the admin details and manage access.

**User:** Monitor the user details and manage access.

**Contact Us:** Any admin or non-admin user can make queries from contact us section of the admin welcome page. Those queries use to be displayed here.

**Category:** Superadmin can add or manage the categories, sub-categories, child categories, size, colour and so on in this section.

**Settings:** In this section Company details, Banner, Payment Policy, Privacy Policy, Return Policy and Terms & Condition are added and managed.

**Product List:** Business type, Category, Sub-Category wise product listing are shown in this section.

# HM SHOPPING WEB APP

## Admin Panel

Register

Login

Forget Password

Dashboard

A seller/admin can register with his mobile number and name by validating a OTP he/she can set his password for login further.

Admin can Login by validating his mobile number and password.

Similarly, like Superadmin admin server also has to verify the JWT token to get the payload for more security.

If admin forgot his password, he/she can reset his password by validating a OTP with registered mobile number.

**Product Management:** Here admin can make request to Superadmin to add a new category and sub-category and get listing of existing category and sub-category for his business type.

**Order Management:** Here admin can manage and track the order belongs to him/her.

## Frontend:

- **Angular** , a javascript framework is used to make its main UI.
- **Ionic** is use as web framework to make the UI smooth and efficient.

## Backend:

- The whole Back-End is made of **Laravel 5.8**
- With the **Laravel ORM** concept, it's been easy to make the whole system Tense to Dynamic.
- By using **JWT** token we have made every payload more secure with encryption. With each page reload the token has to be verified every time.
- Each of the functionality comes from a **Api Service Call**.
- Some APIs contains multiple functionalities,
- Used **Laravel Seeder** to keep backups of important tables.
- Used **Laravel migration** for each table.
- **Laravel Job** is used to make data insertion operations.
- **Laravel Helper** to define some functionalities.
- **MySql** has been used to store the data in well form structure that we can access and mage data properly with ease.

# HM SHOPPING WEB APP

## User Panel

Register

Login

Forget Password

Home

A User can register with his mobile number, email and name by validating a OTP. he/she can set his password for login further.

User can Login by validating his mobile number and password. Similarly, like Superadmin and admin user server also has to verify the JWT token to get the payload for more security.

If User forgot his password, he/she can reset his password by validating a OTP with registered mobile number.

**Search:** Here User can search products by categories or titles.

**Product:** Here User can get product list by several categorization and also details view of the product.

**Order Management:** Here User can manage and track the order belongs to him/her.

**Profile:** User's profile can be managed and updated from here.

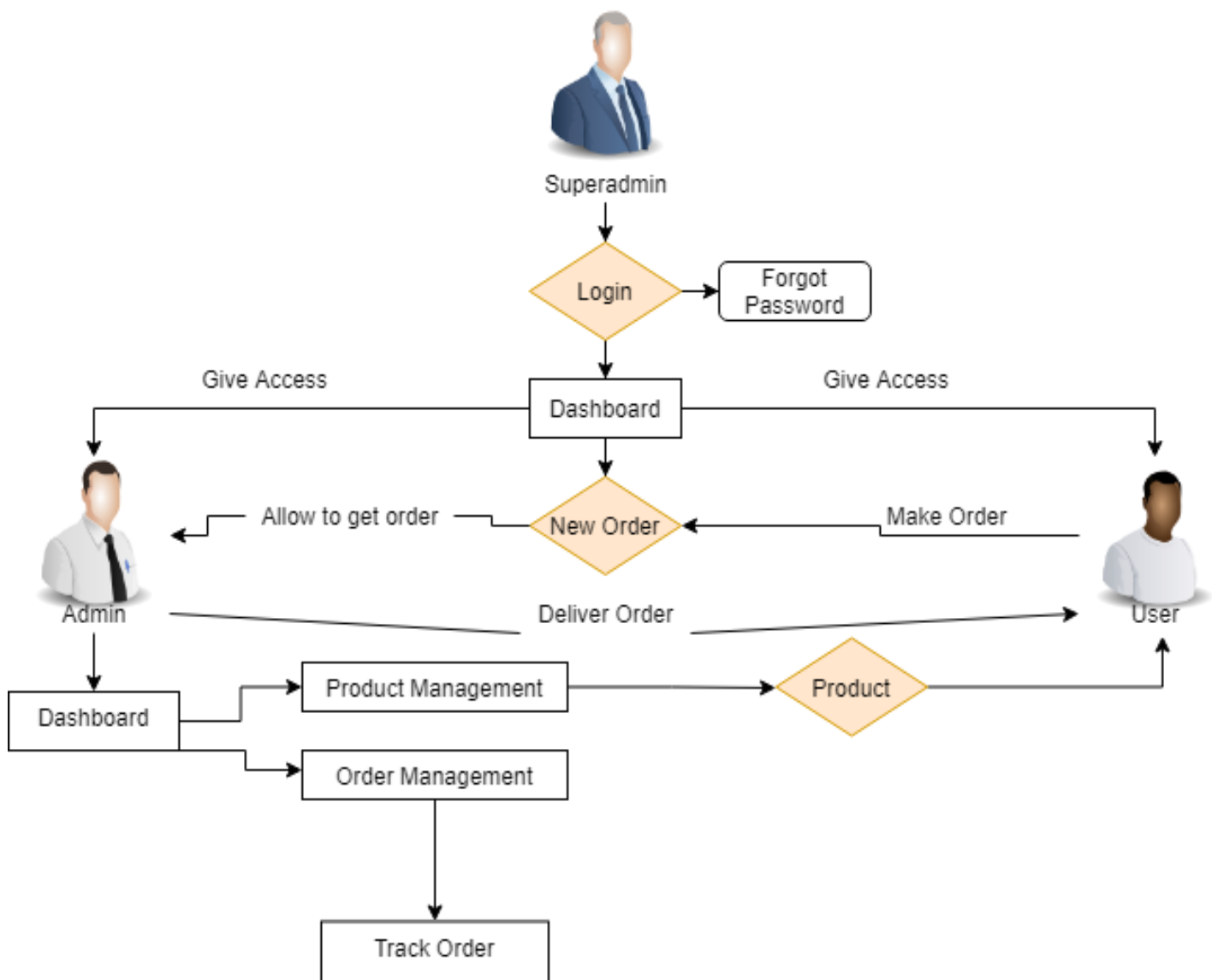
### Frontend:

- **Angular**, a javascript framework is used to make its main UI.
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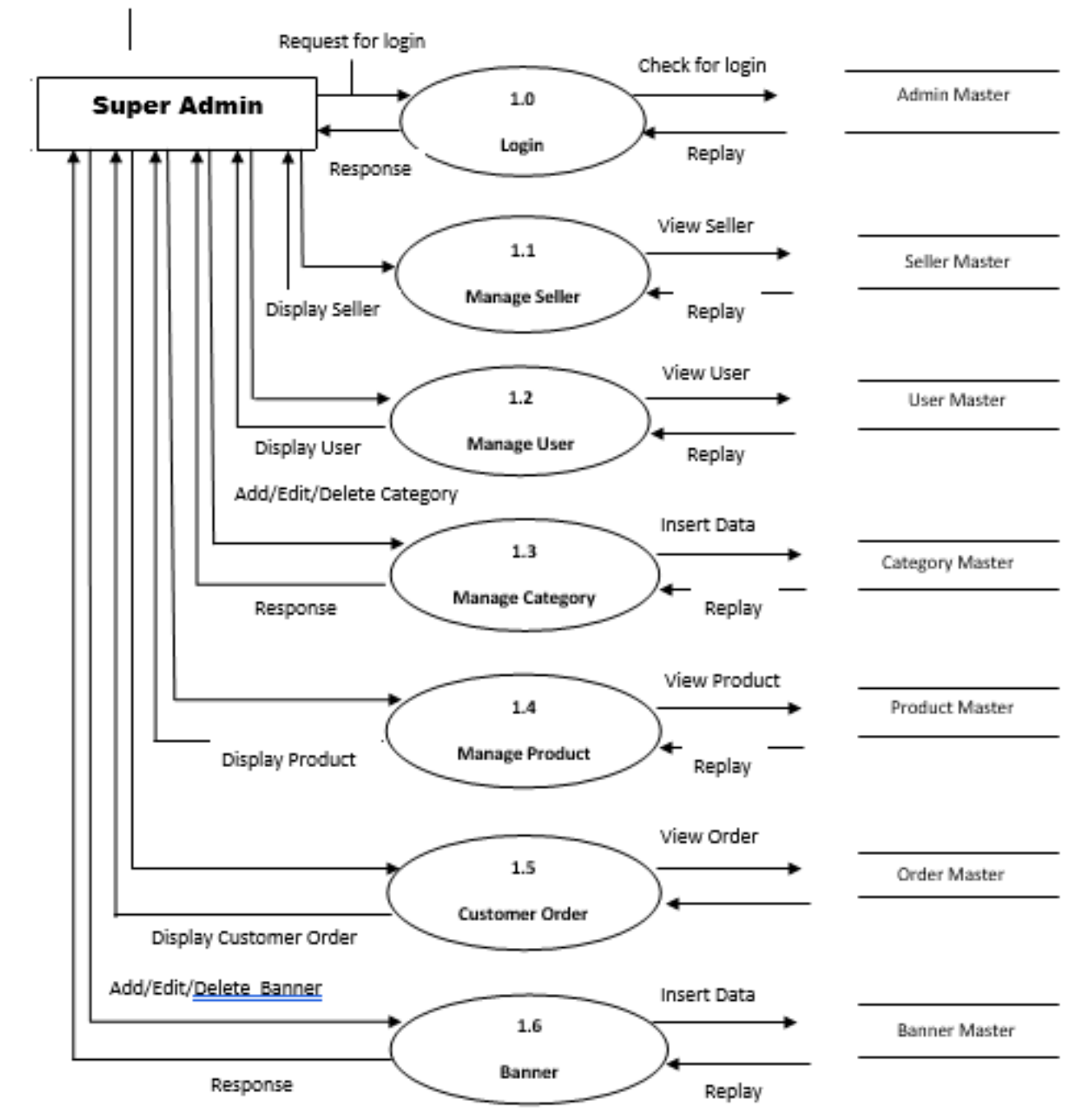
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- **Laravel Helper** to define some functionalities.
- **MySql** has been used to store the data in well form structure that we can access and mage data properly with ease.
- There are dynamic designs made from backend.
- The **ORM concept** make the data flow faster and smoother.
- We have Used **Laravel Model and Jobs** to retrieve the data from database.
- Manual inputs dot added to the **Laravel Request** functionalitv to Join Queries and in other querv builders.

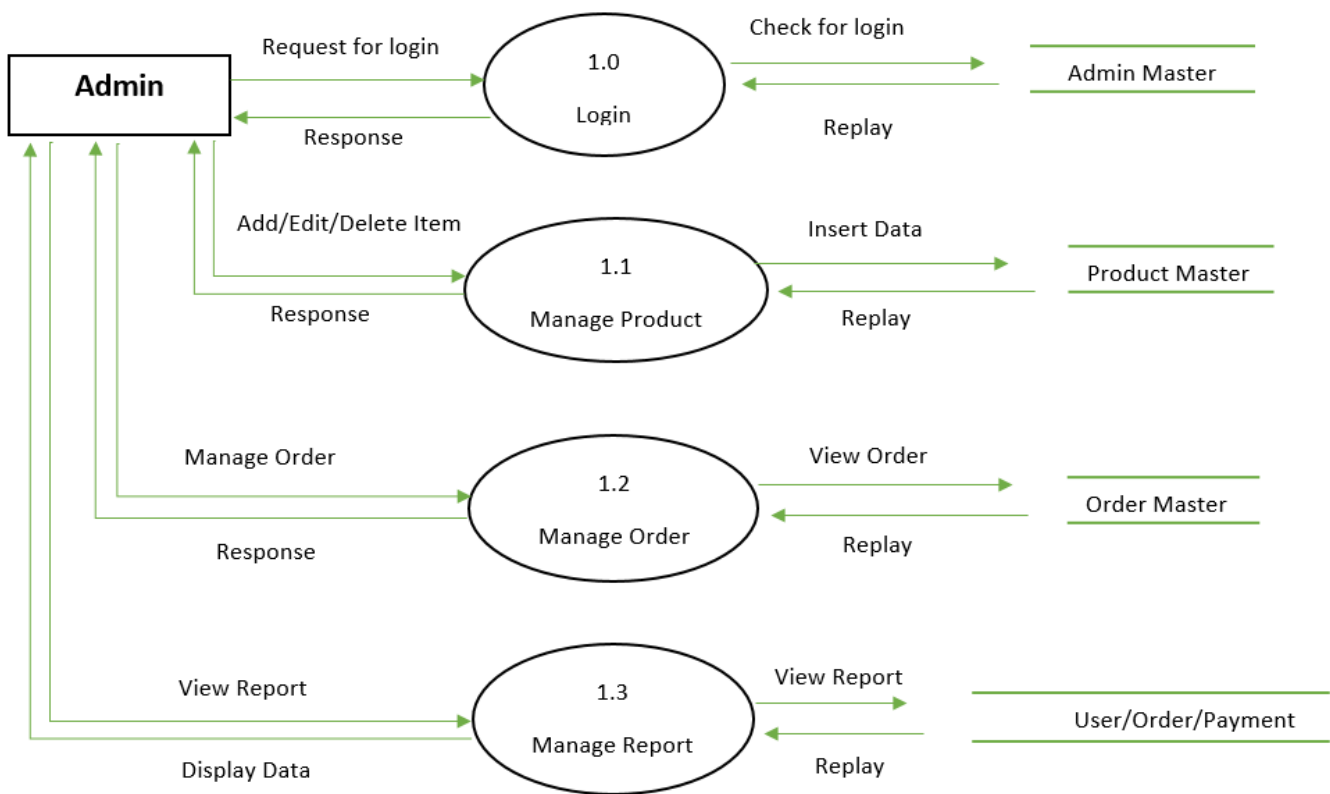
## • WORK FLOW



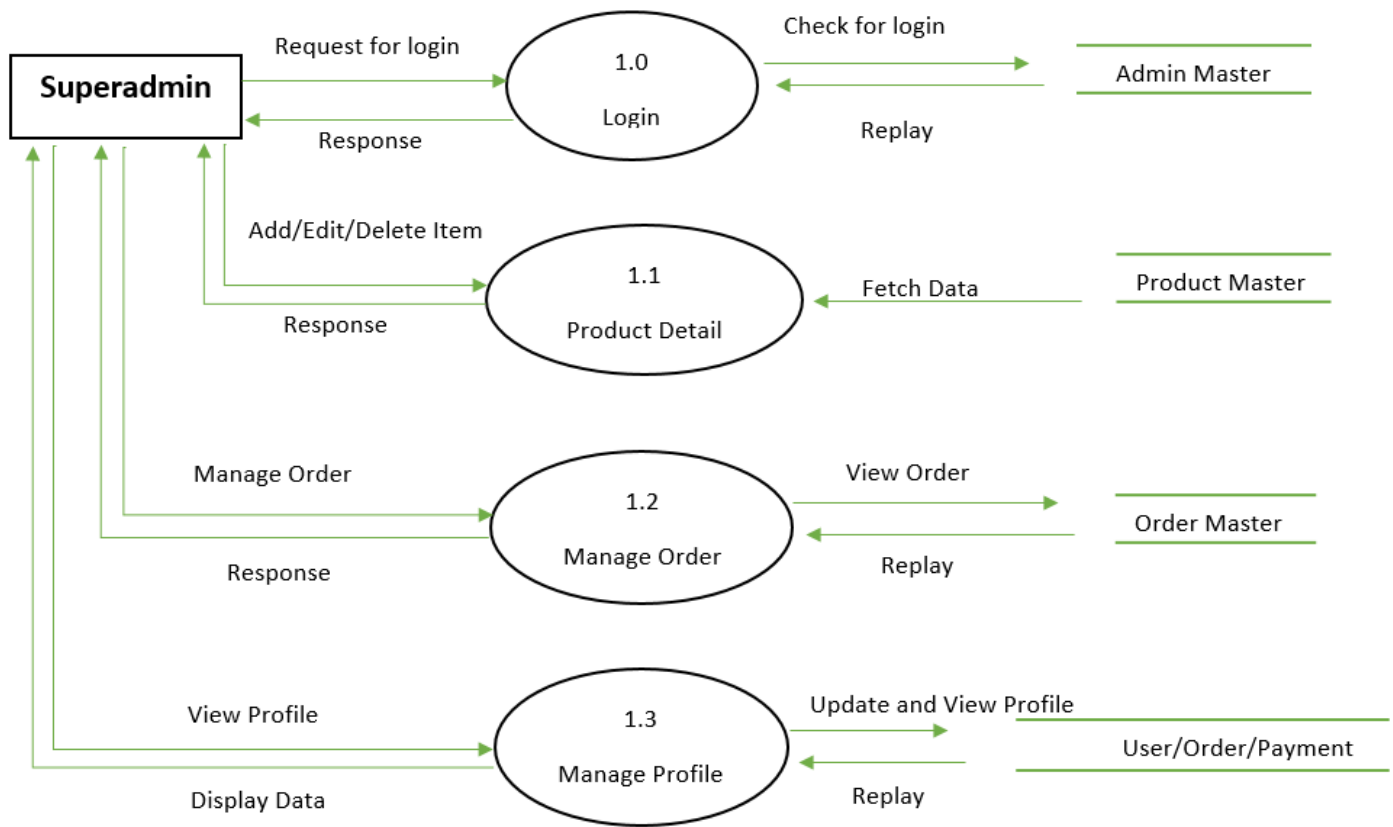
# DFD [SUPERADMIN]



## • DFD[ADMIN]



# DFD[USER]



## About DBox

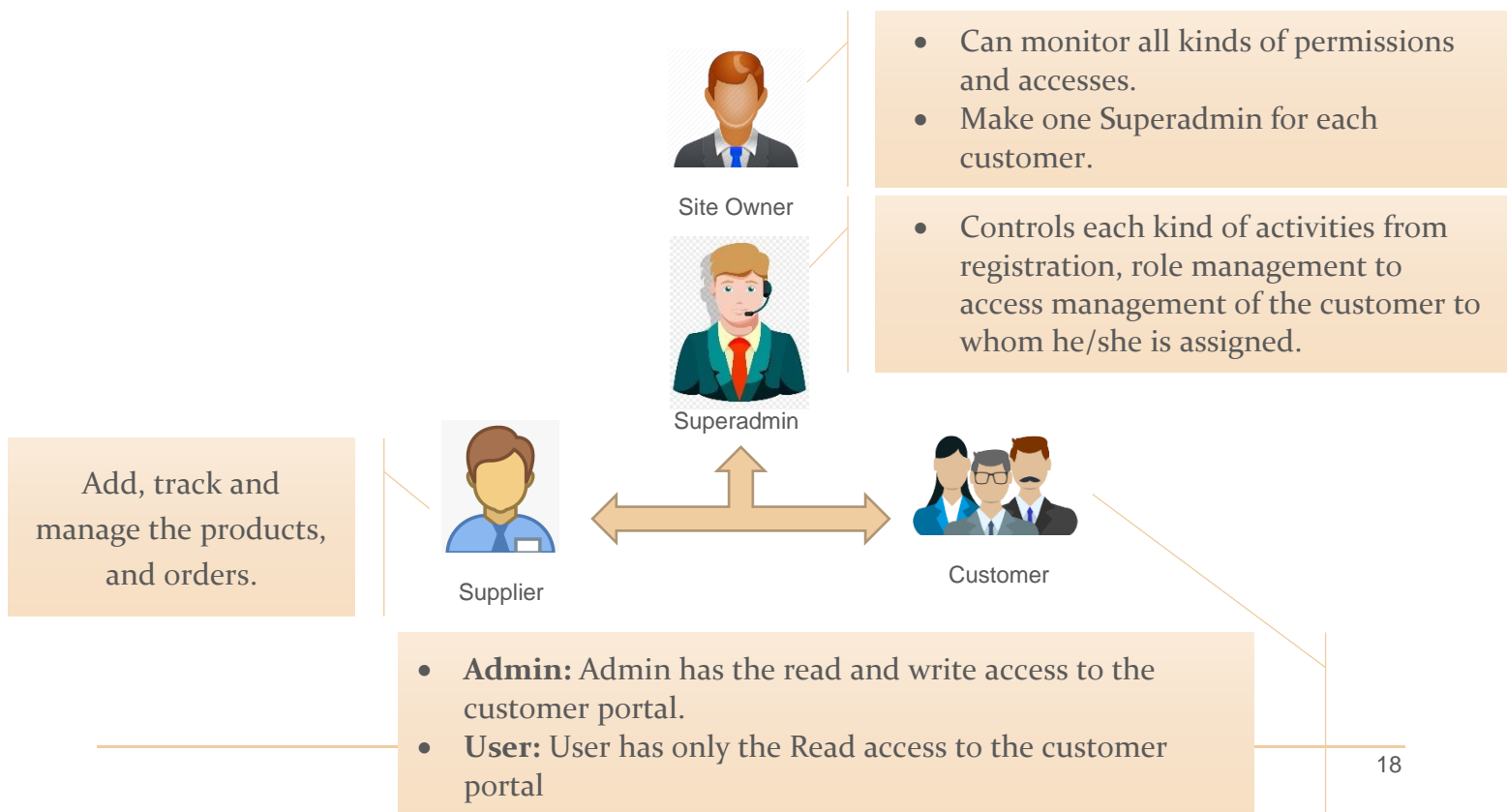
**The Dbox project is a unique example of a wide E-commerce management system. It connects a brand/company to its Raw Material suppliers easily and securely. The Site owner monitors and controls the whole management system.**

**In this platform any kind of company, makes materialistic products can Register and buy raw materials for their products.**

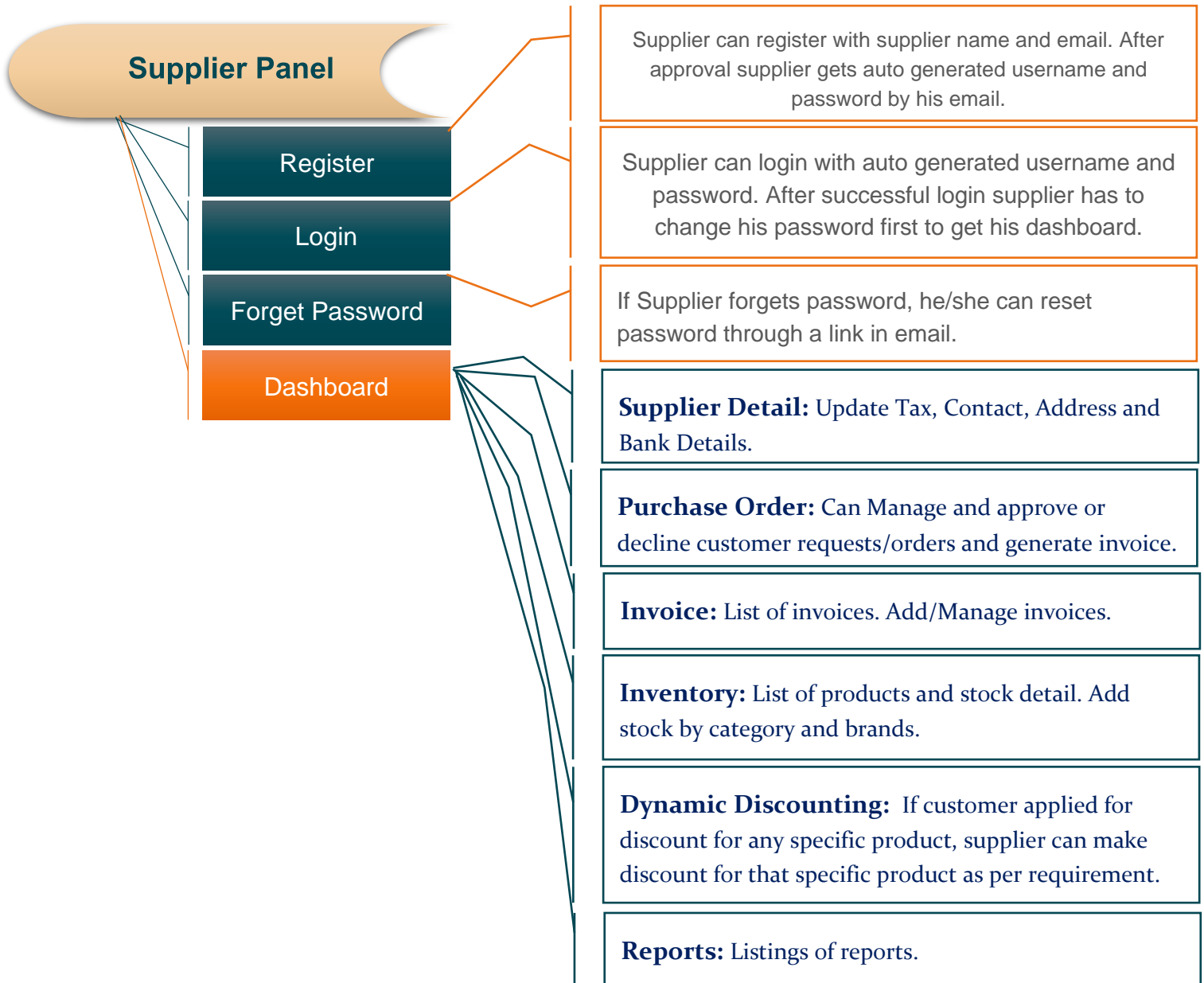
### Flowable

**Flowable is none other than an access or permission management application that is generally used to make permissions to any kind of registration, payment or other activities belongs to other two modules likely suppliers and customers.**

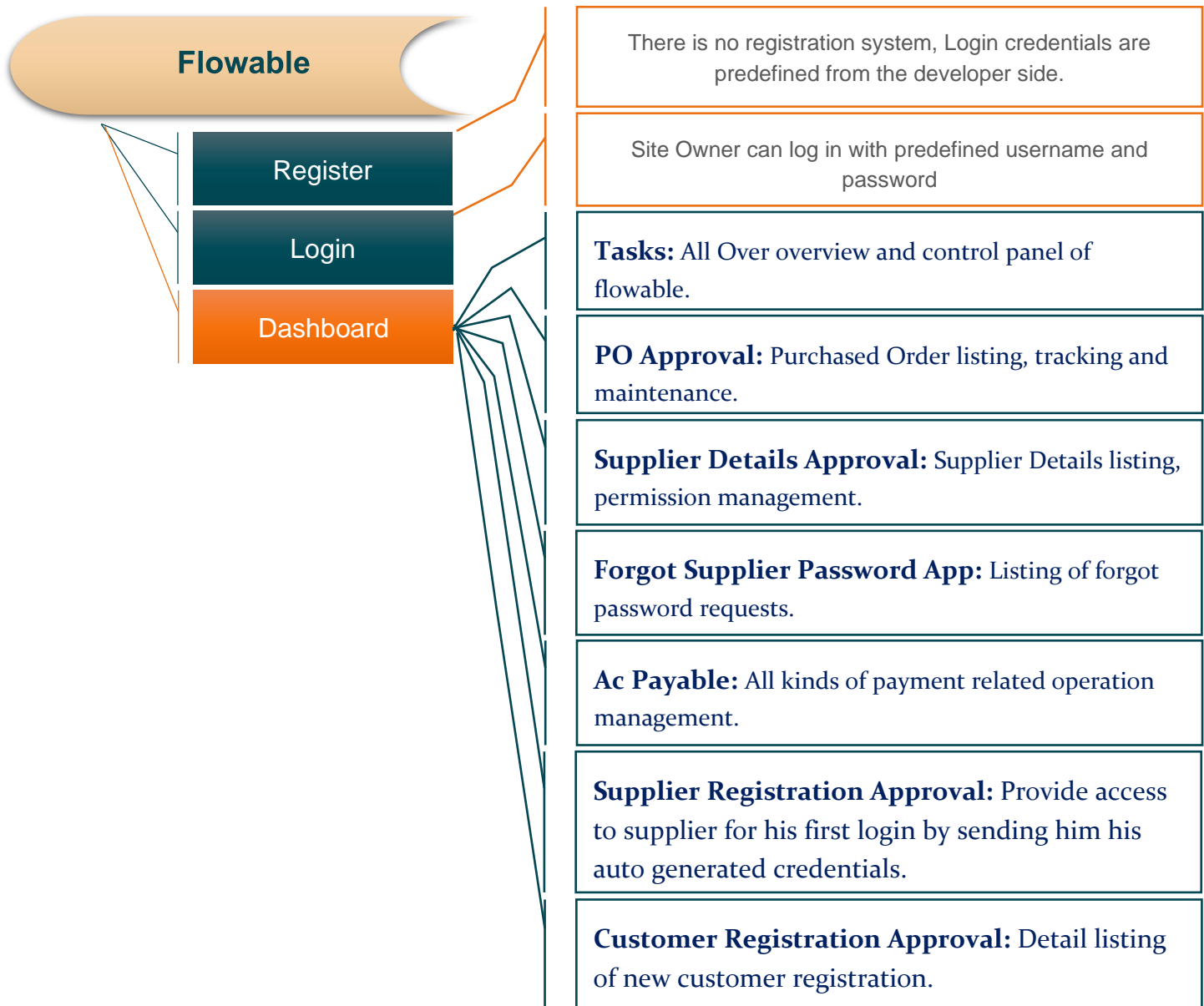
**So generally, there are three modules which are interconnected through the flowable application.**



## • DBOX WEB APPLICATION

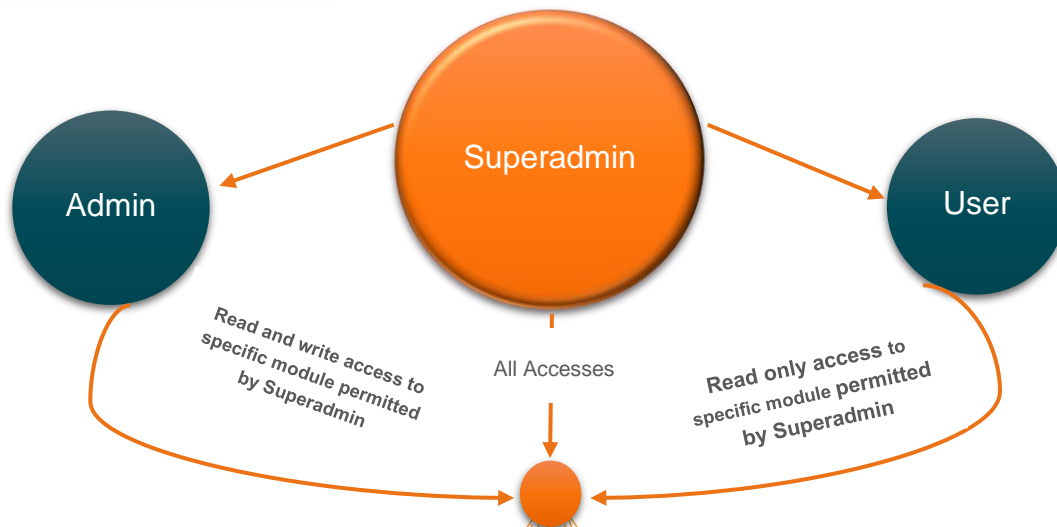


## • DBOX WEB APPLICATION



# DBOX WEB APPLICATION

## Customer Panel



**Contract:** Listing of contract and add contract.

**Address:** Listing of Addresses and add

**Department:** Listing of Departments and add department.

**Bulk Upload:** Upload Supplier details, supplier details update, registration type, currency, department, functionality, role and so on in bulk as excel file.

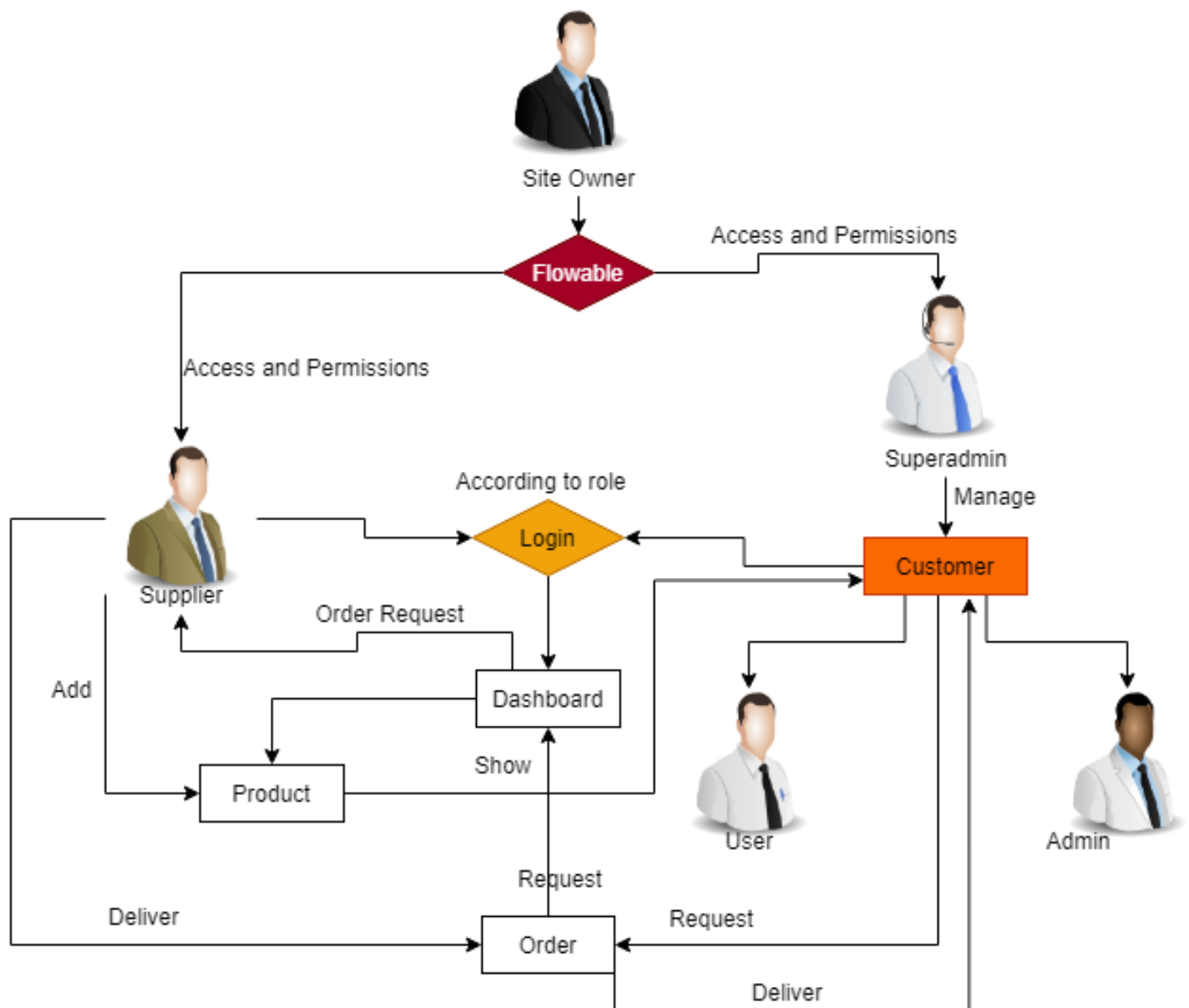
**User Management:** User listing, add and edit user.

**Purchase Order:** Listing of Purchase order.

**Supplier Management:** Supplier listing and add supplier and edit supplier details.

**Company Management:** Edit company details.

# WORK FLOW



## • TECHNOLOGIES BEHIND

### Front-End

- Angular 9.0.0
- Typescript
- Scss
- Material

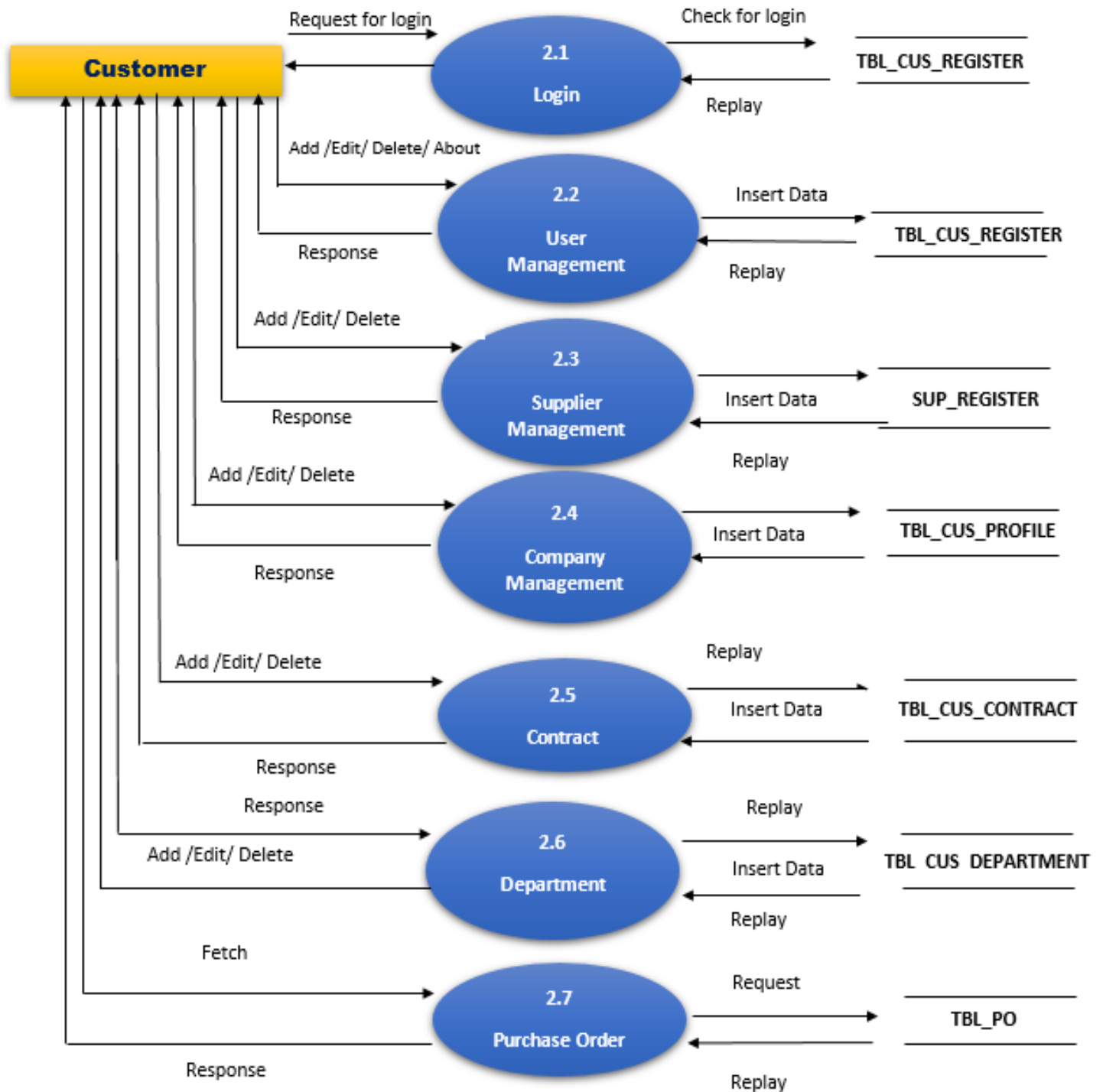
### Back-End

- Mainly developed in Spring boot [Java Framework]
- JWT Token is used for session security.
- Used Rest Controller to handle rest requests.
- Used Spring Data JPA for relational mapping.
- Hibernate in Spring Boot.
- Spring Boot ORM is implemented.
- Spring Boot Swagger for API documentation.
- For external API call, Rest Template is used
- Used GSON for JSON String – Object conversion.
- Used GIT as version control.
- Used Jenkins for CI/CT.
- AWS S3 Bucket for file store.
- AWS Relational Database is also implemented.
- AWS instance for deploying application.
- Used Flowable, a BPM Tool for creating logics dynamically.
- MySql is used to manage database.
- MySql Store Procedure is used to simplify the database Operations.

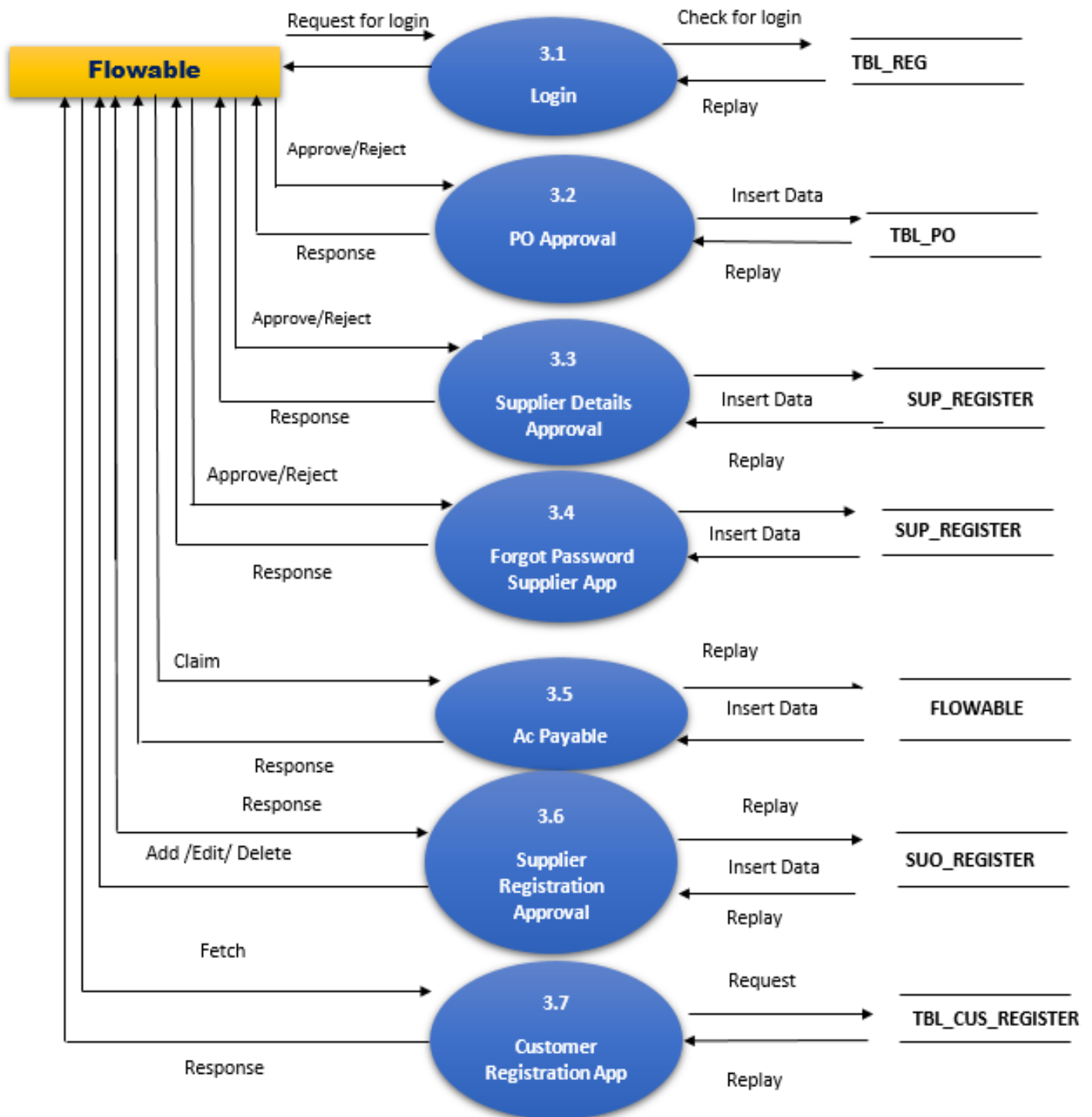
# DFD [SUPPLIER]



## DFD [CUSTOMER]



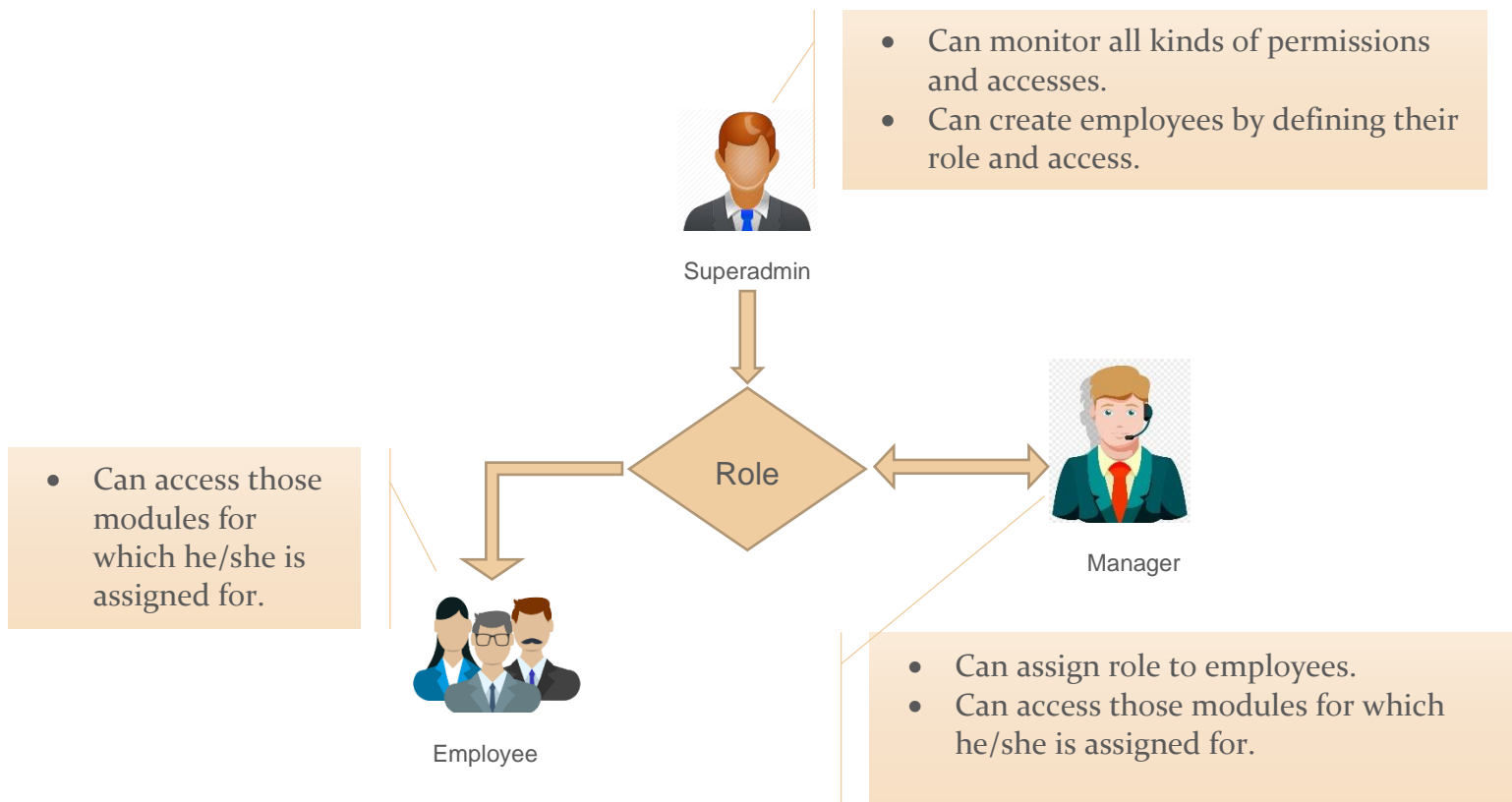
# DFD [FLOWABLE]



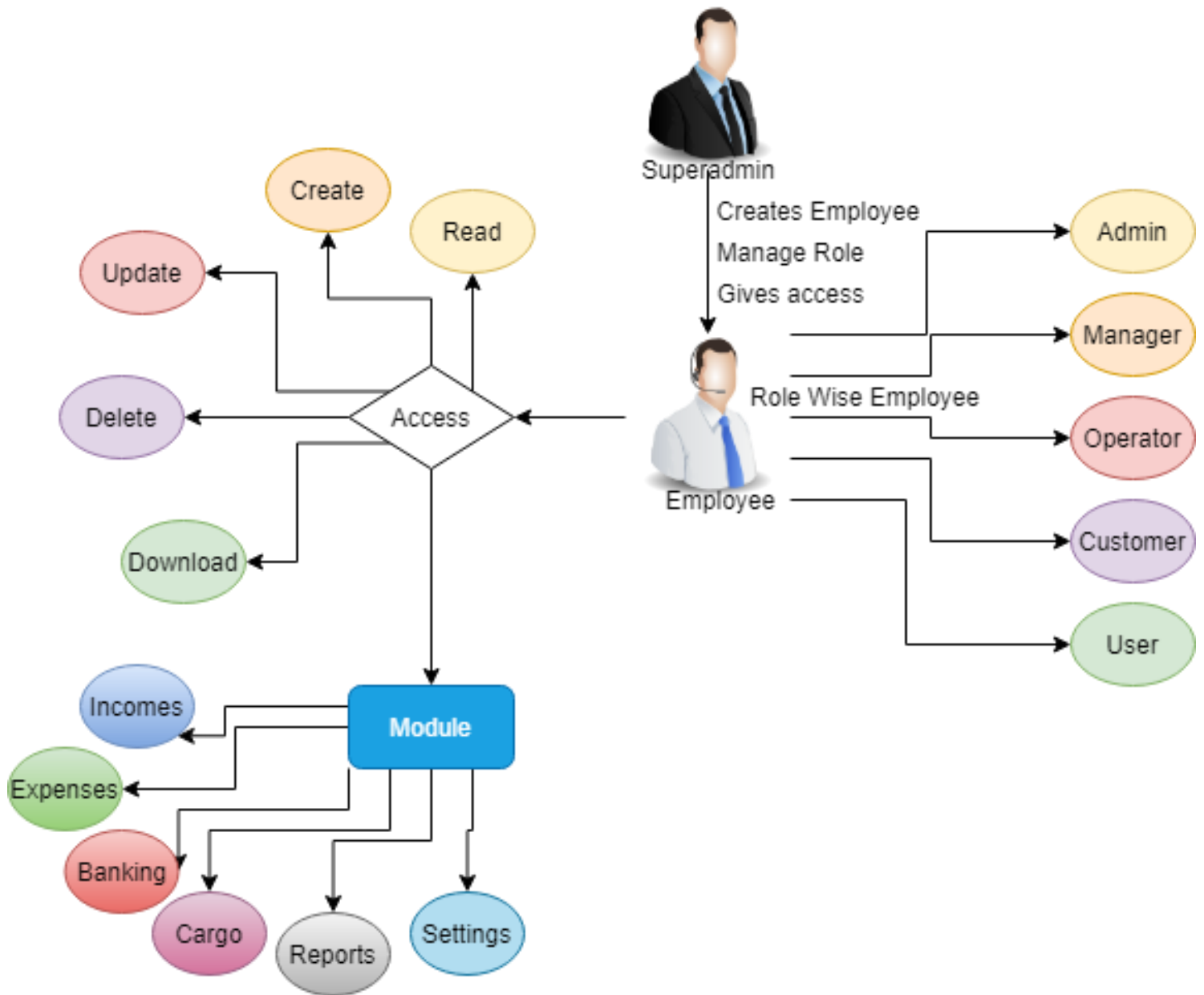
# PRG EXPRESS



**PRG Express is one of the biggest shippers in Canada with multiple office across Canada and India serving many of their clients. PRG Express provides end-to-end logistic services via Air, Land and Sea. PRG Express needs a website to automate all their daily manual work, and track invoice status (paid, unpaid, delayed, etc.). PRG Express expects the data to reside in Canada and would like to host it in Private cloud – to be setup in Brampton, Canada.**



# WORK FLOW



# PRG WEB APPLICATION

## Main Panel

Register

Login

Dashboard

There is no registration system, Login credentials are predefined from the Superadmin side.

Every entity of this application can login from same login panel

**Incomes:** All kinds of incomes can be listed and managed through this module.

- Invoice: Listing, add, import, export, manage.
- Consignments: Listing, add, import, export, manage customer details for whom invoices get generated.
- Revenues: Listing, add, import, export, manage against customer.
- Customers: Listing, add, import, export, manage customer details.

**Expenses:** Listing, Add, Export, Import and Management of Billing, Payment, Employee and Vendor expenses

**Banking:** Listing, Add, Export, Import and Management of Banking Accounts, Transaction and Reconciliations.

### Reports:

- Filtered and Month-wise reports download/print and graphical representation of income and expense and income vs expense.
- Filtered and Month-wise reports download/print of TAX and profit & loss report

**Settings:** Can edit any kind of elements of the application dynamically from this module.

**Cargo:** Package management system.

- Consignments: Listing, add, import, export, manage package details.
- Bags: Add and Edit bags and assign consigner and package details to it.
- Shipments: Listing, add, manage Shipment details.
- Addresses: Addresses can be add or managed from here.
- Cargo Settings: Units can be manged here

# TECHNOLOGIES BEHIND

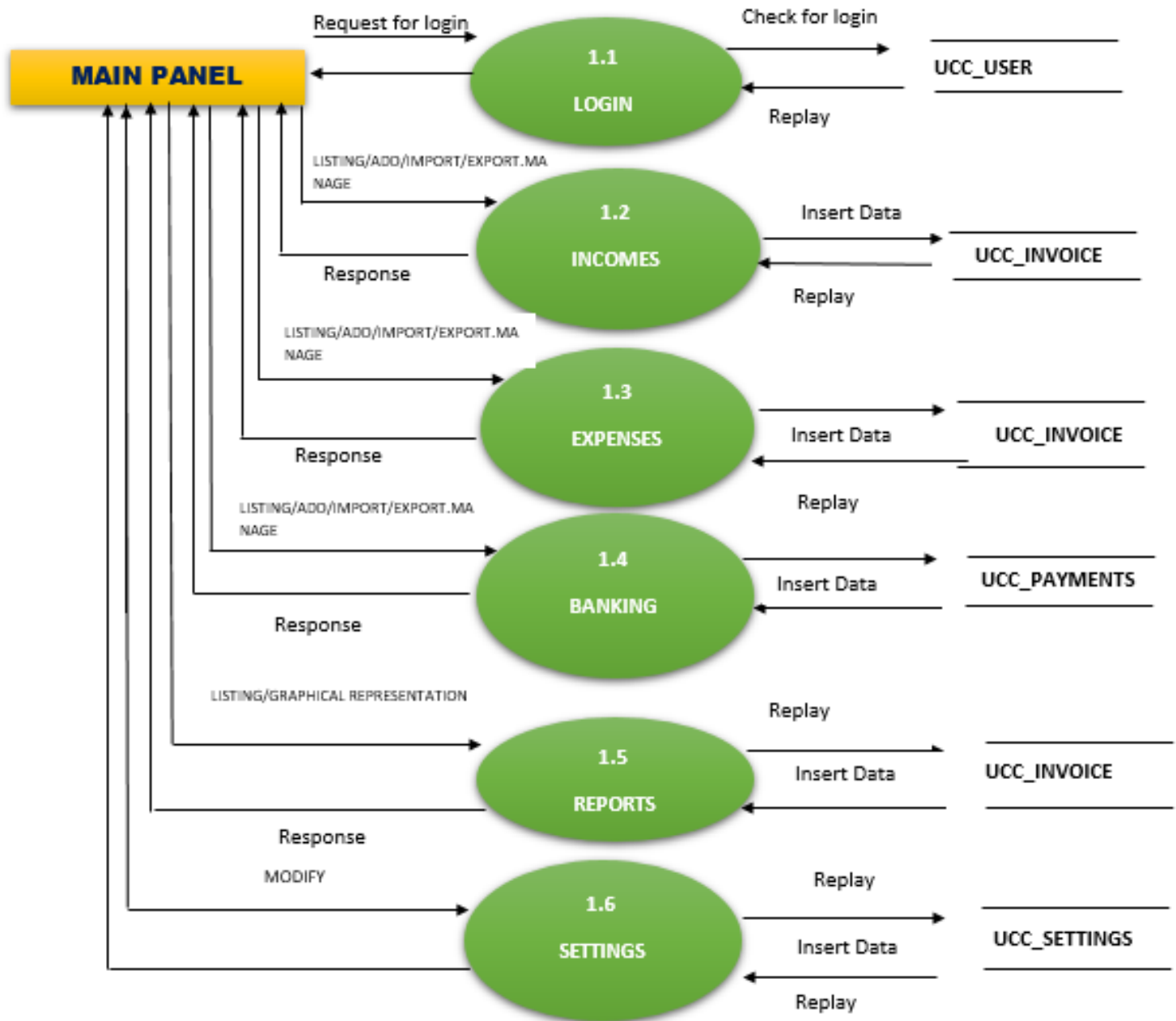
## Front-End

- UI Framework: Bootstrap 3.3.7 (Main Panel)
- Javascript Framework: Angular 7.2.15 (Cargo)

## Back-End

- Mainly developed in Laravel 5.4 [php Framework]
- The main Highlight is the whole application has **full of dynamic elements**.
- Even a form and its field are dynamically allocated.
- Laravel is also used to create and integrate bootstrap design.
- Laravel Auth is integrated to create the login system.
- Laravel Template Engine is used to create dynamic design.
- Laravel effective ORM is used to optimize sql code and make database operations with basic php syntaxes.
- Used Laravel migration to reduce efforts while making changes to database.
- Used Laravel Seed to take backup of specific tables and its data.
- MySql is used as database.

# DFD

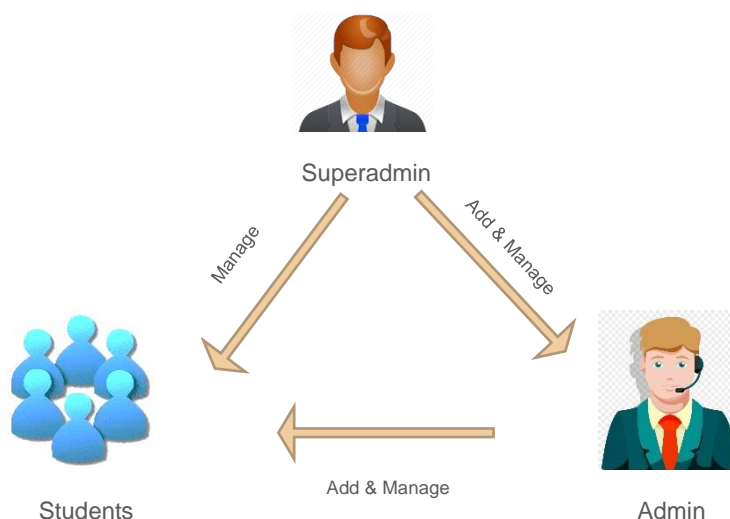


# ULEARN

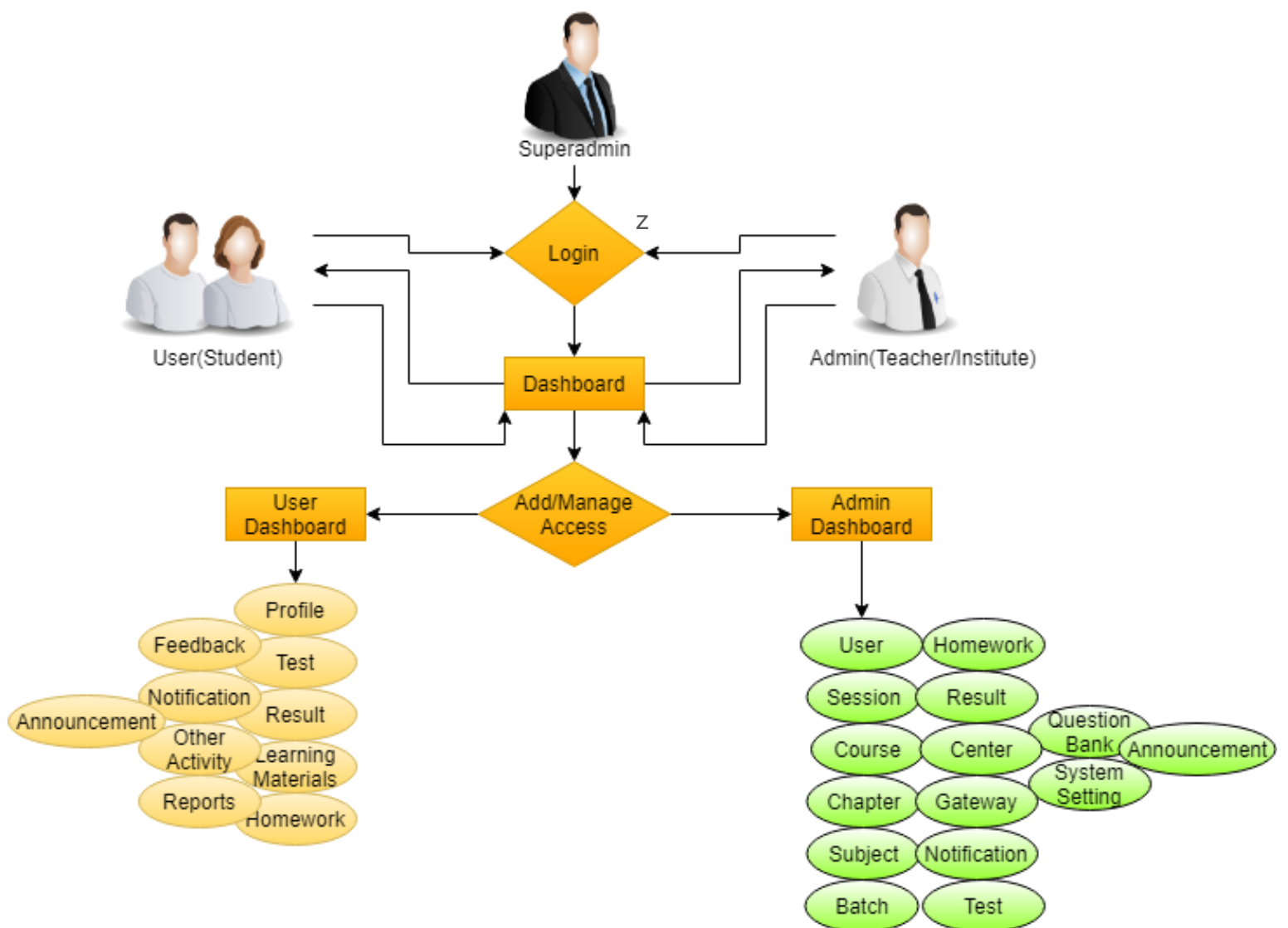
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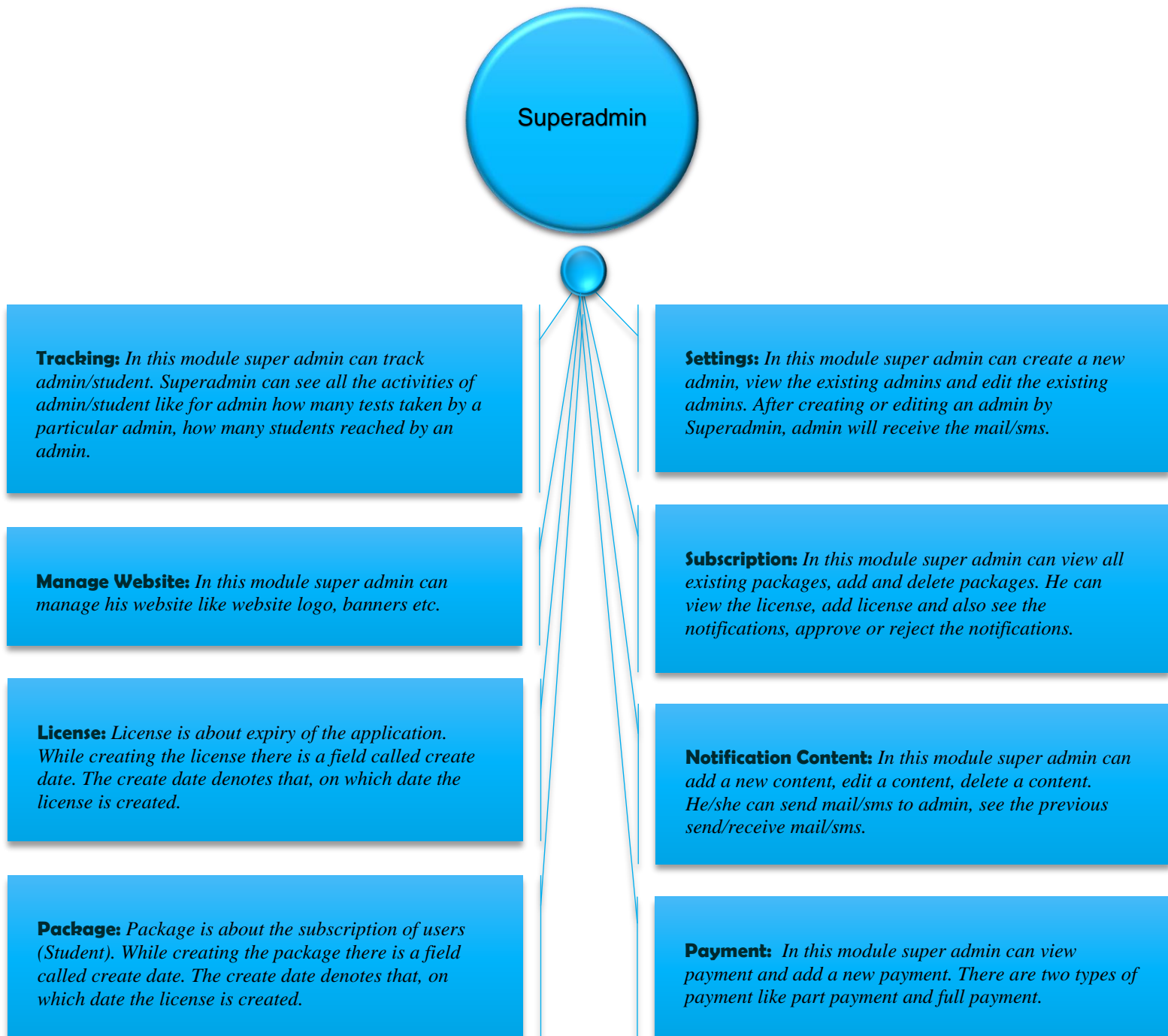
**uLearn is a web application that is an online Education Management System. A teacher or an institute can register here and provide their services likely giving tutorials, taking tests etc. A student can be added at this platform by a teacher or institute to which he/she belongs to. Student can get tutorials and participate in test according to their institutional package. Superadmin can manage all the accesses for the admin(teacher/institute) and user(student).**



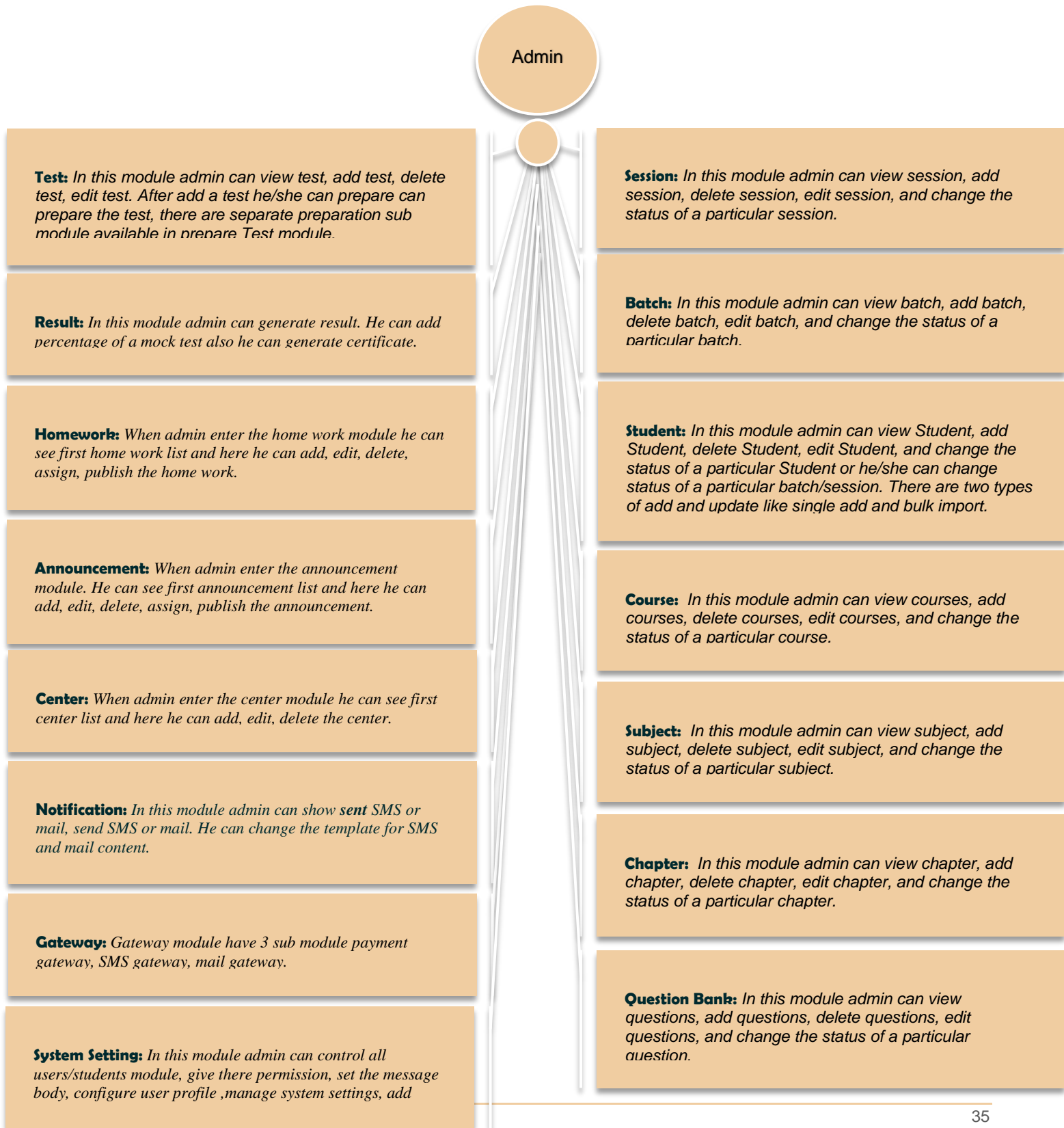
# WORK FLOW



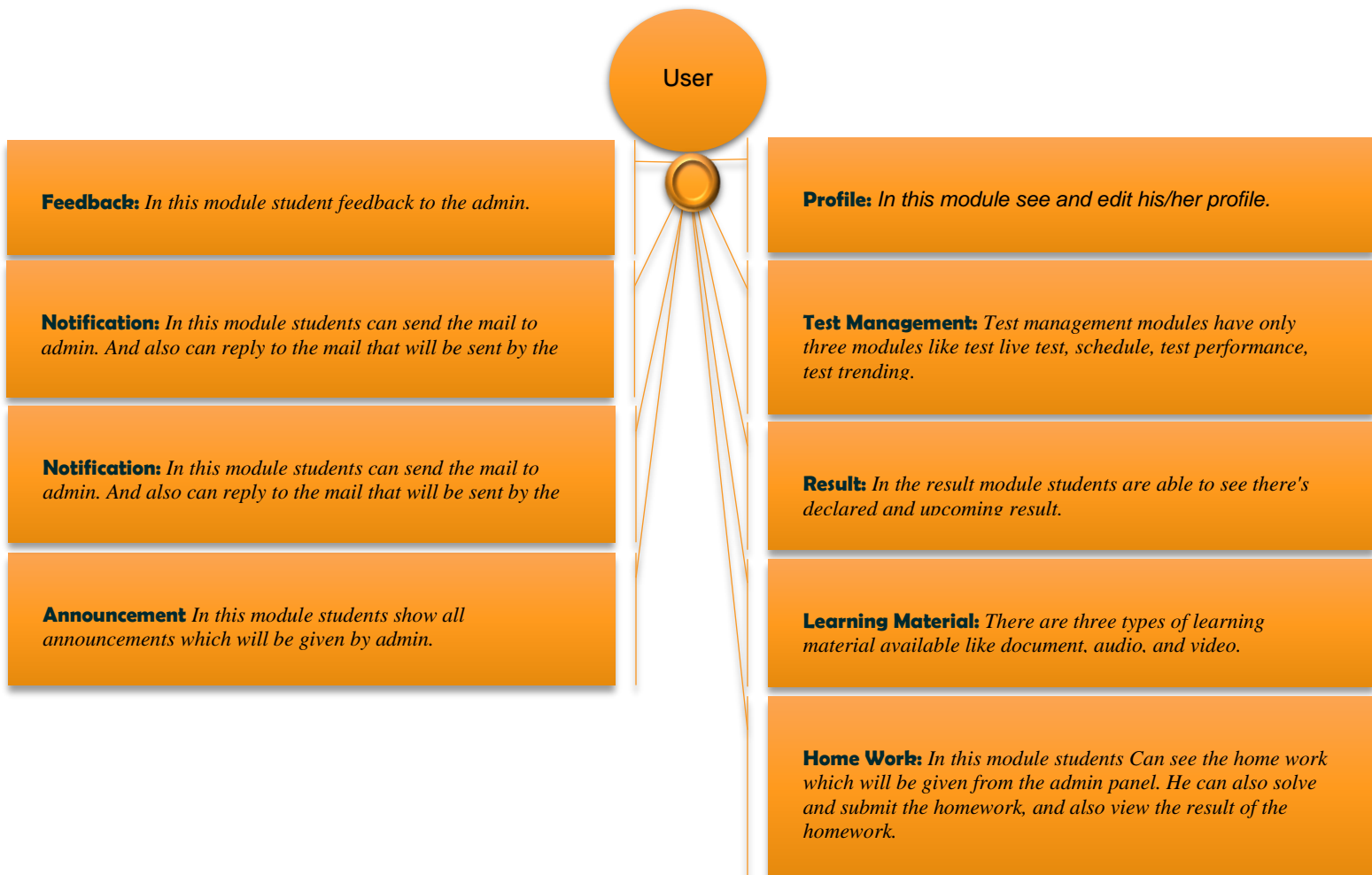
# ULEARN WEB APPLICATION



# ULEARN WEB APPLICATION

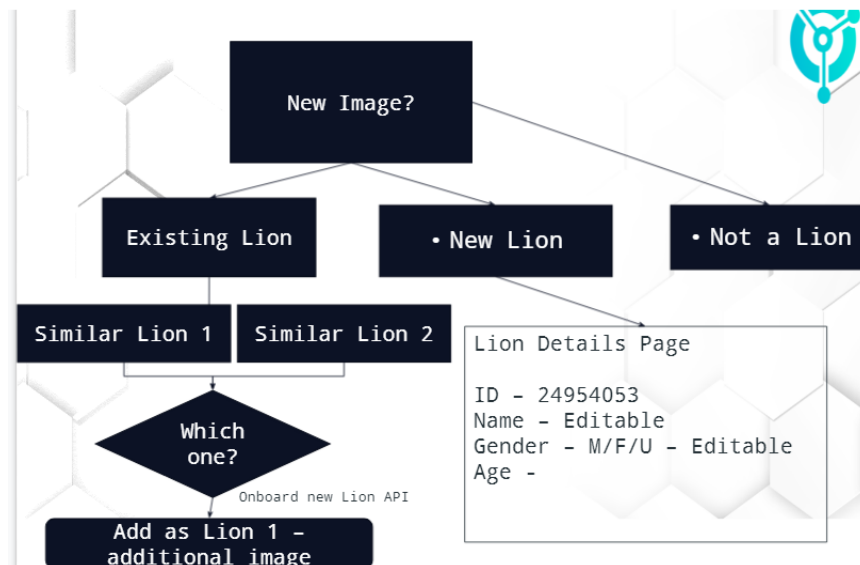


# ULEARN WEB APPLICATION

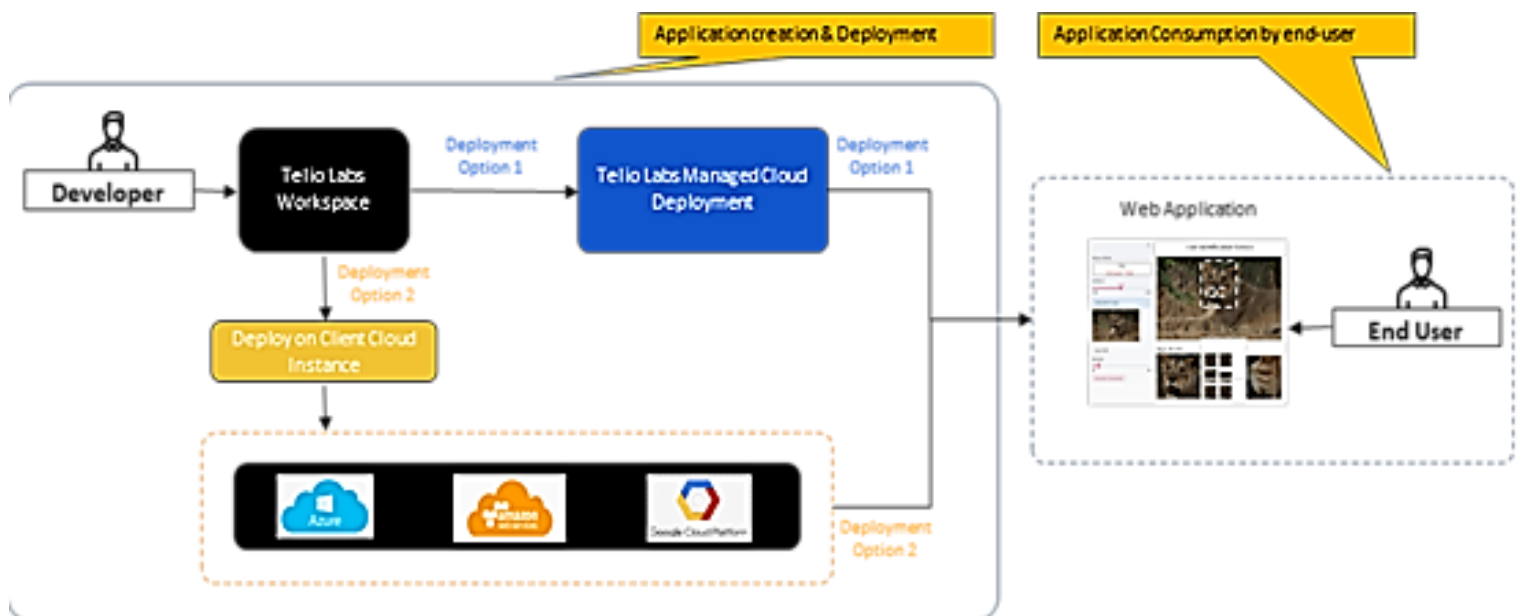




**The GIR web application is all about GIR National Park situated in Gujrat. The application is made for recognizing the lions of GIR National Park. The GIR National Park is made for the lions specially. This web application helps to identify lion with a facial recognition tool named “Whisker” which uses Artificial Intelligence to validate the faces by dividing the face in several parts and validate those parts with picture given by the user.**



# WORK FLOW



# GIR WEB APPLICATION

---

## Upload Photo

- Upload photo
- Fetch lions name with additional information
- Generate name tag

## ID Card Generation

- ID card for each unique lion
- Along with name, tag and additional information

## Edit Metadata

- Expert can edit or update the metadata of the lion

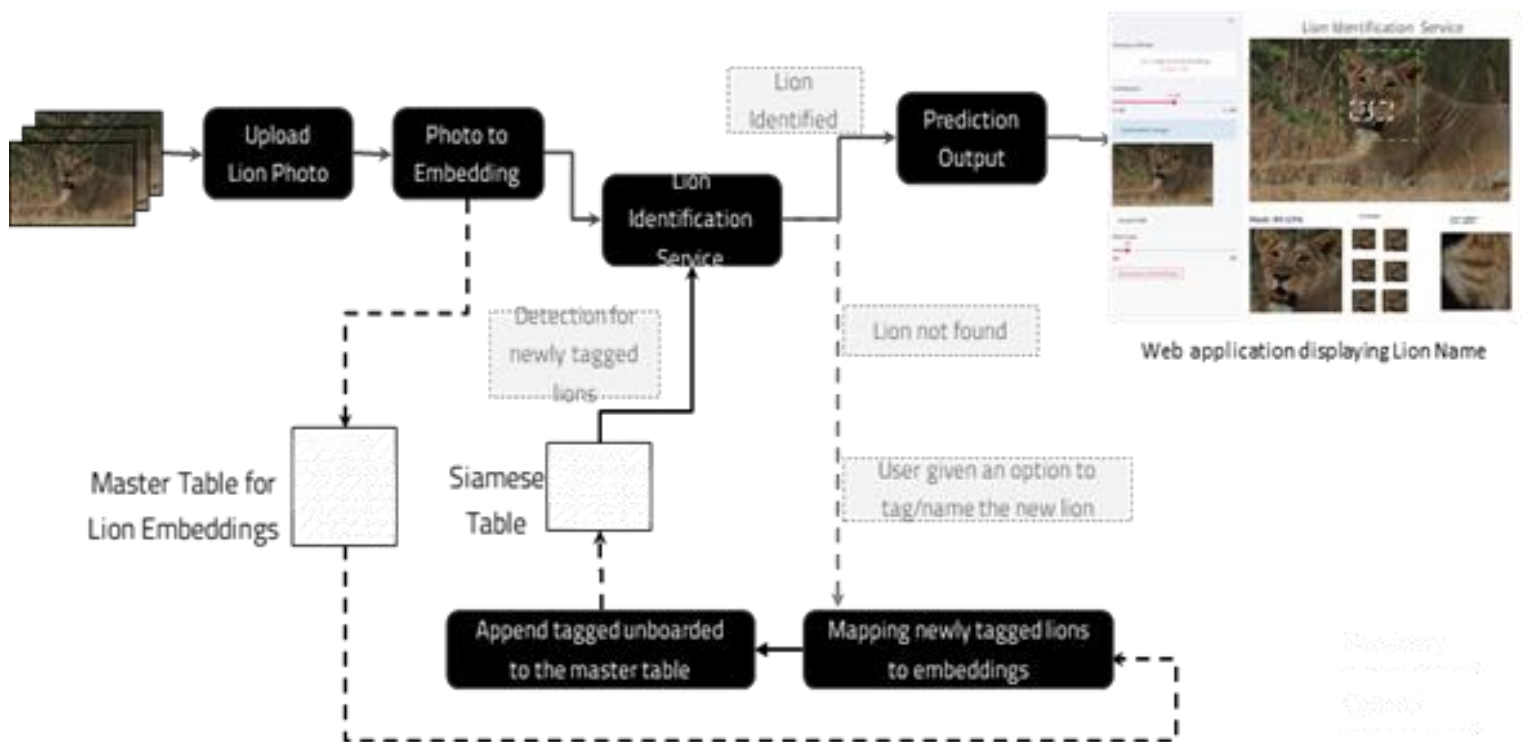
## Model Prediction

- Predict folder of images to the end user side for validation.

## Data Table

- Table with all the data of the lions.
- Can filter the data by several criteria.

# “WHISKER” ARTIFICIAL INTELLIGENCE & AUTO LEARNING



## TECHNOLOGIES BEHIND

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**Frontend:** To create interactive and dynamic portal for end user, REACT is use

**Backend:** Django is used to create rest API.

**Computer vision:** Deep learning model is used for image classification and to differentiate the Lions.

Along with pytorch ,keras ,OpenCV is used for building model.

**Database:** MongoDB is used to store images.

**Cloud:** To accelerate and automate the ML workload GCP is used

**MLops :** Docker, Kubernetes and Kubeflow is used.