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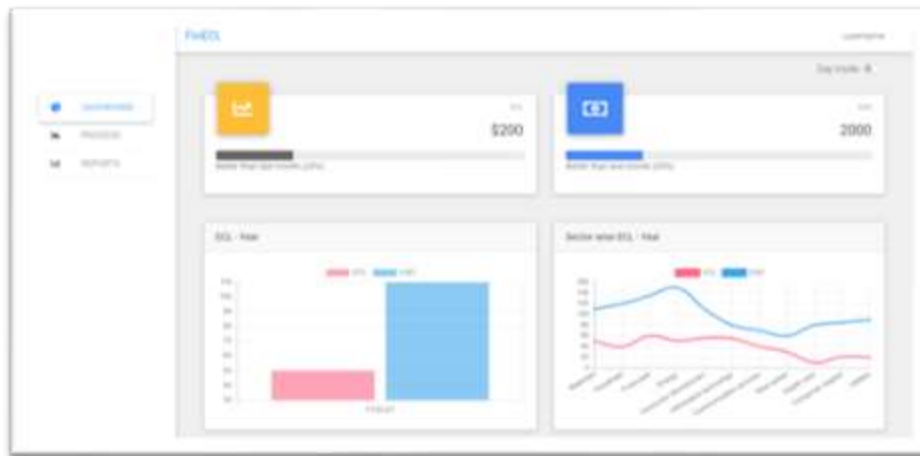
## Software Modules

### 1. Login Page/module

- Built in Micro-services – API integration option to integrate with Active Directory etc.
- Forgot Password / Reset Password – A verification link will be sent to email id to reset the password. API for integration with mail server.

### 2. Dashboard

- Drill down Dashboard with range of Graphs and Data visibility.



### 3. Process Module

- Default User role – will select date and process the report. Report can be exported in Excel or CSV format.

The screenshot shows the FinECS Process Module interface. It features a sidebar with navigation links: Dashboard, Process, and Reports. The main content area contains a form with fields for 'From' and 'To' dates, a 'Select' dropdown menu, and a 'Process' button. The 'Select' dropdown menu is open, showing options: 'All', 'For', '1. All', '2. All', and '3. All'. The form also includes a 'Day mode' toggle in the top right corner.

#### 4. Reports Module

Module with Search, Date selection for reports and Export option (Excel/ CSV)

- a. Report 1
- b. PD
- c. LGD
- d. STAGE
- e. EIR

#### 5. User Management Module

- a. Admin User (Role)
  - i. User create/update/delete
    - Add User
    - Update user
    - Delete user
  - ii. DB uploads
    - browse & upload files
    - Master Table updates
- b. Super User (Role)
  - i. Update password – system will ask to update the password every 30 days.
  - ii. Change pwd – Option where User can change the pwd before pwd expiry of 30 days. Once pwd is changed the counter should reset to next 30 days.
  - iii. Approve/ checker – tasks performed by maker will be approved by super user role (checker). Before approval change has to be maintained in DB temp table. After approval it will take effect in DB.
  - iv. Workflow Management
- c. Default User (Role)
  - i. Update password – system will ask to update the password every 30 days.
  - ii. Change pwd – Option where User can change the pwd before pwd expiry of 30 days. Once pwd is changed the counter should reset to next 30 days.
  - iii. Request/ Maker – few tasks performed by maker need to be approved by checker (super user role)
  - iv. Workflow Management
  - v. Forgot Password / Reset Password – A verification link will be sent to email id to reset the password. API should be ready. Integration with mail server.

#### 6. Data Load Module (access to Admin user (Role))




- a. Scheduler/ Trigger (Auto) – an ETL like Apatar or CSv2db for MySQL in Java application. PySpark , pandas, Avik cloud (Hybrid SaaS option), Odo etc libraries/tools for ETL in Python application

- b. Data Load Trigger (Manual) – Admin User (Role) Data Load trigger to manually load data into DB. Browse & upload CSV files to update the Master table in DB.

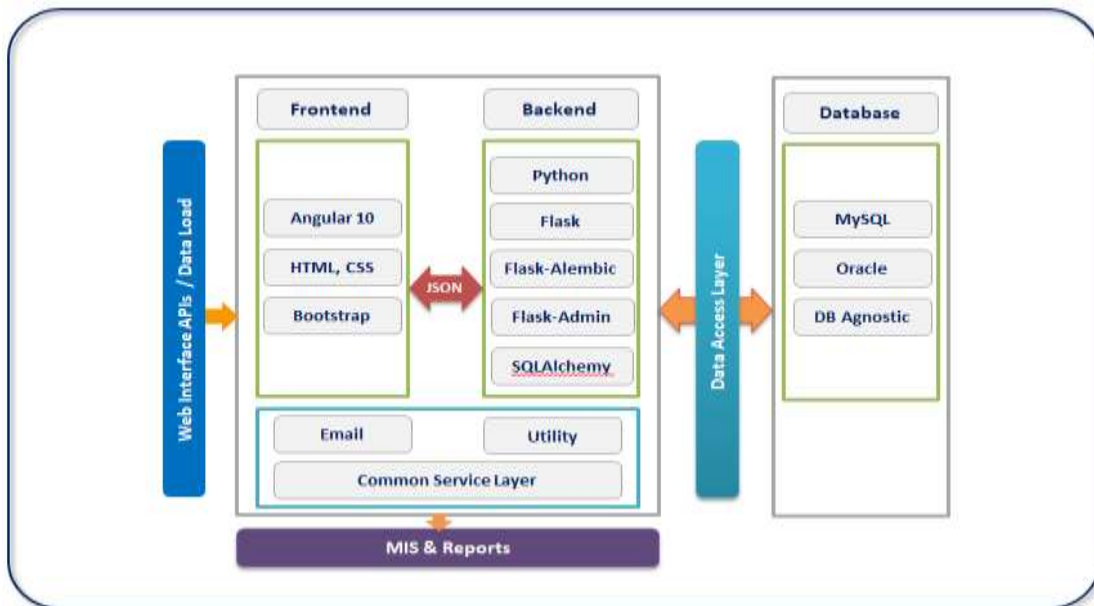
## 7. Audit trail

- a. Records all activities of User role.
  - i. Login/ Logout
  - ii. Processes executed
  - iii. Reports generated
  - iv. Changes/ input at UI level – approved/ rejected etc.

## Tech Specs

	Angular, HTML, CSS, Bootstrap OR Django/Flask
	Python, Flask, Flask-Alembic, SQLAlchemy, Odo, Pandas, Django, PySpark / Apache Spark OR Java, Spring boot, Hibernate, Python(must)
	MySQL / Oracle / DB Agnostic

## Tech Architecture



## DB Architecture –

Database design.

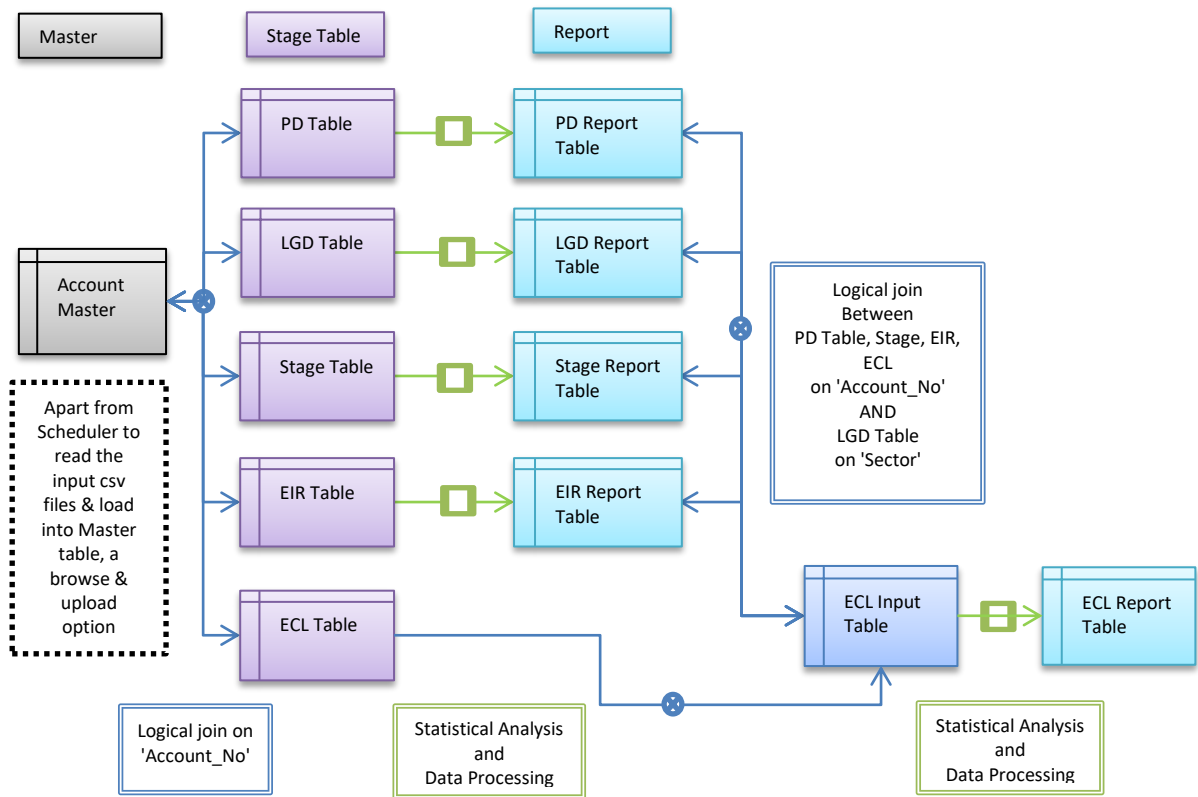


Fig. FinECL DB Design

## Product – Budget & Payment Terms

Developer is expected to work on above mentioned modules. Developer is expected to work on all modules.

Payment terms – 50% on delivery and remaining 50% on validations.