

Student Longue	Version: 1.0
<b><i>Banca Hain En Gi</i></b>	Date: <12/4/2020>

# Assignment 2

## Project documentation

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## I Project specification

The project consists in designing an application for the administration of the Bank Hai En Gi.

The Application will have two types of users:

Normal User: the clients of the bank

Admin: the employee of the bank

## II Implementation

The application uses **Model-View-Controller** architectural **pattern**.

The **Model** contains only the pure application data, it contains no logic describing how to present the data to a user. It is composed by the Entities, Repository and Services classes.

**Entities** examples:

- User
- General Account
- Address
- Etc.

The **Controller** exists between the view and the model. It listens to events triggered by the view (or another external source) and executes the appropriate reaction to these events. In our case the Controller has 2 classes which controls the operation for the user and for the admin:

- Admin Controller
- User Controller

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The **View** presents the model's data to the user. The view knows how to access the model's data, but it does not know what this data means or what the user can do to manipulate it. It contains the only html pages like :

- Login
- Logout
- NewAccount
- PayFactura
- SendEmail

## Security

The security of this application is implemented with the help of Spring Security application. The class responsible for that is **Security Config** which extends WebSecurityConfigureAdapter and has 3 methods.

- **Configure** - specify the role required for accessing a certain link.
- **ConfigureGlobal** -extract user from database and memorize their username, email, password and role
- **PasswordEncoder** -specify if there exist any encoding for the password.

As mentioned before the application would have 2 types of users Admin and Normal Client.

The Admin will have full access to the Application and the Normal User would have restricted access to some features of the application like: Introducing new companies, Viewing all user from the application

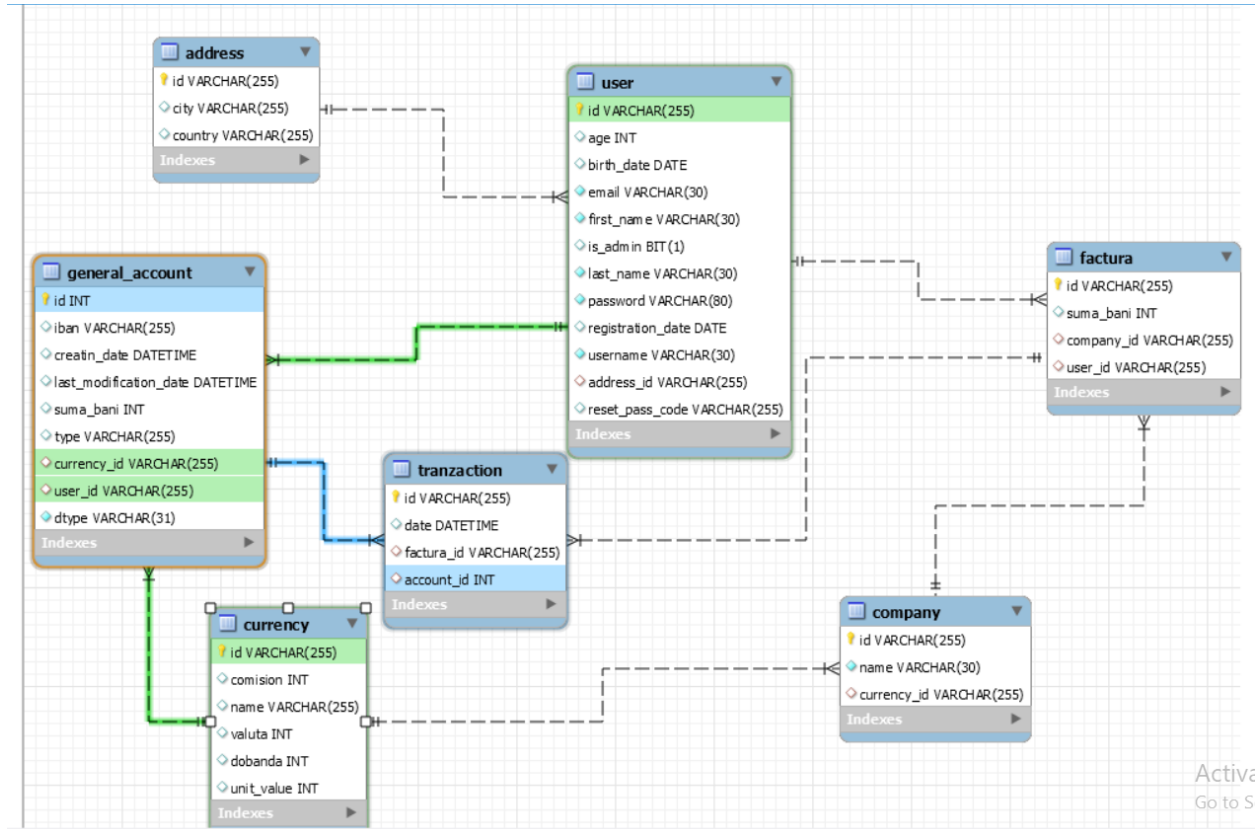
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### III DatabaseSchema



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