



SecurePay is an online payment portal that provides customers to buy goods and pay with credit card securely via web.

In this case, we will only consider;

- * Register new customer
- * Save customer's credit card info encrypted
- * Placing a new payment
- * List all payments of customer
- * Query monthly payment statistics

Base Requirements:

- * Java (min SDK 11), Spring framework (Spring Boot is more than welcome)
- * Relational or Non-Relational database (H2 could be an option)
- * Restful endpoints
- * Clean Code
- * Test (min %90 functionality coverage. EclEmma could be an option)
- * Documentation
 - Brief definition about your design
 - Tech stack that you used
 - How to start the project
 - Encryption types that you used

Must Have Requirements:

- * Customer controller
 - Will persist new customer
 - Will add or update customers credit card info encrypted

* Payment controller

- Will persist new payment of the customer
- Will query payment by search criteria (card number or customer number or customer name)
- List all payments by date interval (StartDate-endDate) (Pagination sounds very nice)

Validations:

- * Please be sure your system is error proof.
- * Make sure that customers can not be registered with an existing email
- * A credit card number can be registered for one customer.
- * Credit card numbers must be stored encrypted
- * Payment amounts must be greater than 0
- * if you need extra validations, please feel free to add

Authentication:

- * Please secure endpoints (for ex. bearer token)

Responses:

- * Please define success and error response models

Logging:

- * Log exceptions

Open API specification:

- * Please use Swagger

How to submit:

- * Please use your github account and share your repository link with us.