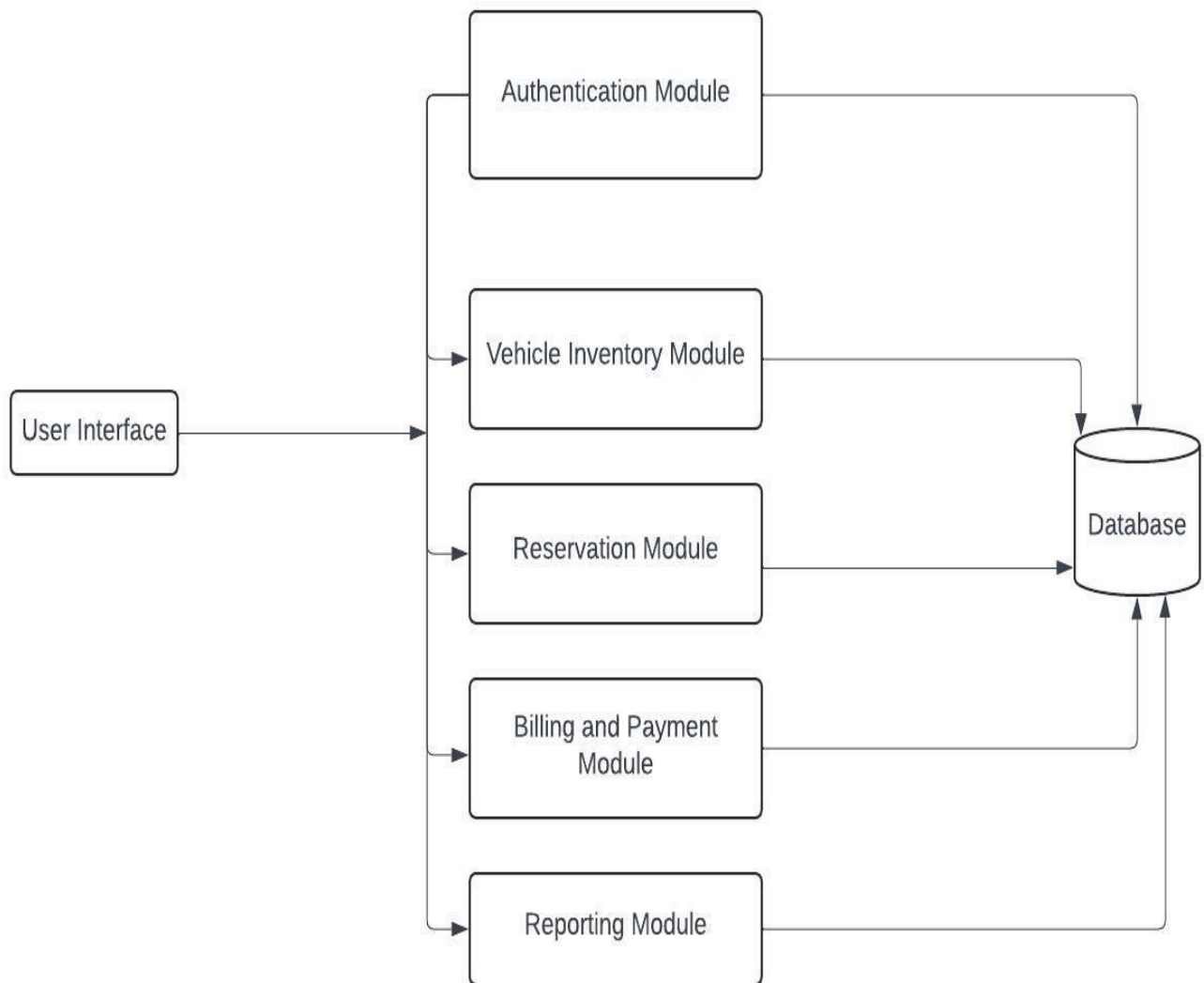


High Level System Architecture Diagram
On
“Rent A Car - a Car Rental Management System”

Project Team members:

Name	ID
Md Shah Jalal Mazumder	615720
Md Moynul Islam	615869
Sujit Kumar Chanda	615185
Asif Ahammad Miazee	615156

Architecture:



Physical Tier:

The system is designed in monolithic architecture. In the physical tier,

- There will be user such vehicle vendor, front desk user and customer.
- Spring MVC application will be part of the application tier.
- There will be single database to store data.

Logical Tier:

- For Authentication module, spring native authentication will be used. Every time users try to access any data needs to verify their identity based on role.
- Vehicle Inventory Module will maintain inventory such as add vehicle, update vehicle and keep track of vehicle maintenance. This module will be built by following the 3-layer architecture.
- Reservation Module will maintain all the information related to reservation. User can reserve vehicle from this module. It will also follow 3-layer architecture.
- Billing and Payment module follow similar architecture and will be responsible for doing rent calculation and generate bill.
- Reporting Module will be responsible for generating business reports for vendor.

Technology:

Front-end: HTML, CSS, Thymeleaf.

Back-end: Spring MVC

Database: MySQL/ MS SQL.