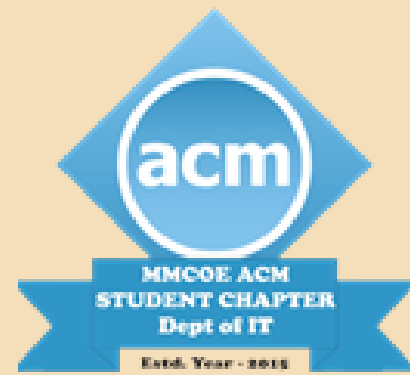




**</HACKSPRINT>**  
**V 4.0**



# ONLINE LIBRARY MANAGEMENT



# TEAM NAME : SED WIZARDS

## TEAM NOMENCLATURE: HACKSPRINT\_<PS2>\_<SED WIZARDS>





## **TEAM NAME: SED WIZARDS**

- 1. VIJAY LONDHE**
- 2. NAMAN GUNTIWAR**
- 3. YASH KALYANI**
- 4. PARUL KAKADE**



# **DOMAIN: WEB DEVELOPMENT**

**PROBLEM STATEMENT: DEVELOP A WEB APPLICATION FOR ONLINE BOOK LIBRARY | BOOK RENTALS. THIS WEB PORTAL SHOULD MAINTAIN A DATABASE OF BOOKS, MAGAZINES, AND JOURNALS AVAILABLE IN THE LIBRARY AND FACILITATE THE CUSTOMER TO REGISTER, ORDER, AND DELIVER SELECTED BOOKS TO THE GIVEN ADDRESS.**



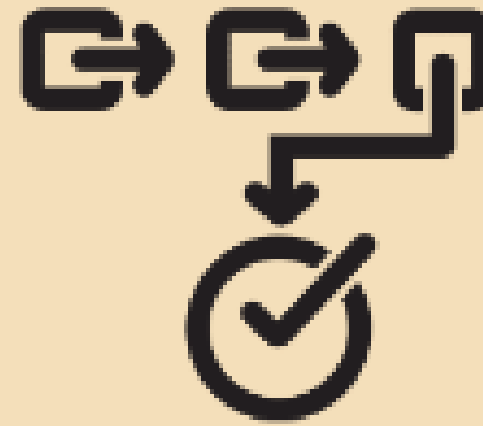
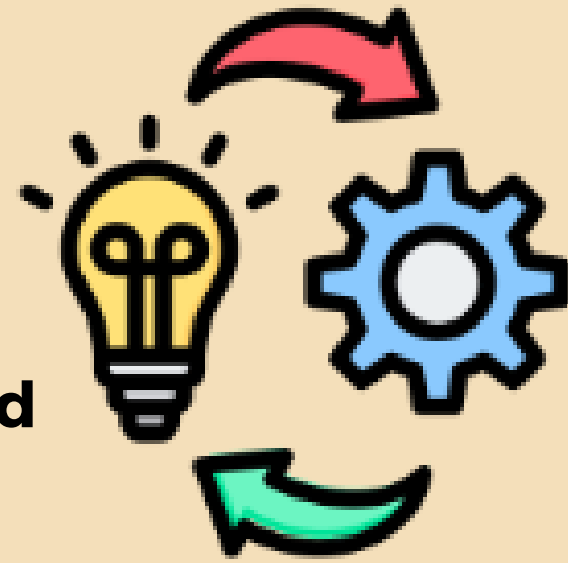
# **IDEA/APPROACH :**



- **HTML CSS JavaScript for the frontend and node js and mongodb for the backend.**
- **So first we provide the user interface for the user which asks to login.**
- **If user have no account then it asks for user credentials.**
- **Then the credentials are target using JAVASCRIPT and stored in values.**
- **Then the data in the form of Json is exported to a js file where with the help of Node js it is stored in Mongodb.**
- **We used mongoose for the schema validation so that the database is secured and no misinformation of IT resource is encountered.**
- **After the registration the data gets stored in our 'users collection' which uses SEARCH API to check the user.**
- **Then the user is landed to main page where books are presented through beautiful UI.**
- **Then after clicking on the purchase the order is shipped.**
- **We added payment gateway.**

# IMPLEMENTATION DETAILS:

- Two members designed UI.
- Two members designed backend system containing book and user record ,the database of book was stored in mongoDB in Json format.
- Used mongoose to validate schema , express js to simplify the routes and design fullflegded webdesign.
- Maintained books.js and user.js inorder to performe options as follow : register html, use internal javasc through which we exported api from register.html to books.js. We had functions to insert data in our database system mongodb.



# STACK/TECHNOLOGY USED :

- **NODEJS(DEPENDENCIES:  
NODEMON,EXPRESS,MULTER,MONGOOES,  
MONGODB , FS,OS,HTTP)**
- **HTML**
- **CSS**
- **JAVASCRIPT**
- **MONGODB, COMPASS**
- **EJS(DYNAMIC INJECTION)**
- **SCHEMA VALIDATION AP DESIGN FOR DBMS**



**CSS**



mongoDB

**HTML**





# DAY 1 PROGRESS :



- Team into 2 parts: frontend and backend
- Frontend Work : Landing page , Login page , Resgisteration page, styling all pages with CSS.
- Backend : Using Mongodb and Nodejs designed the schema about the database and tested API's using Postman and Vscode ; Manual Backend.
- Ran into error of circular dependency injection (--node trace).





# DAY 2 PROGRESS :



- **Backend :** Two collection namely user and books.
- **User database :** Database of people who registered through website.
- **Books :** Statically typed by one of our member
- **Faced difficulty in connecting frontend and backend**
- **Today we ran into some glitches and error, figured out.**





**THANK YOU!**

