QA

# Private Driving Accompany

Python App

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# Background

# **Project management**

# **User Story**

The user story is used to generate the system requirement for design the basic system features and functions.

#### 1. Customer

- 1) As customer, I want to keep my account safe, so I need a login page to keep all my information.
- 2) As customer, I want to view the private instructor or deals, so that I can choose which lesson I would like to attend.
- 3) As customer, I want to create, update, and delete a request for a lesson, so that I can make extra fees to take my time off on lesson searching.
- 4) As customer, I want to view the review of driver, so that I can choose the reliable and skilful instructor.
- 5) As customer, I want to write, update and delete the review of driver, so that driver's performance can be develop and hold accountable.
- 6) As customer, I want to become instructor, so I can offer driving accompany to make revenue.

#### 2. Instructor

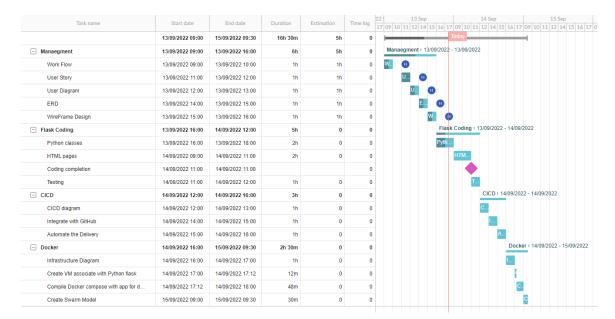
- 1) As instructor, I want to view the request in my area, so that I can provide service to the pupil I want.
- 2) As instructor, I want to create, update and delete my lesson in the area, so that pupil can follow my schedule.

#### 3. Admin

- 1) As Admin, I want to approve the driver who is qualified for the instructor in different level, so that pupil is in good hand.
- 2) As Admin, I want to approve the pupil is covered with proper insurance before the lesson started, so that regulation and law is followed.
- 3) As admin, I want to solve the dispute in the driving lesson, so that fair and justice can be reserved.

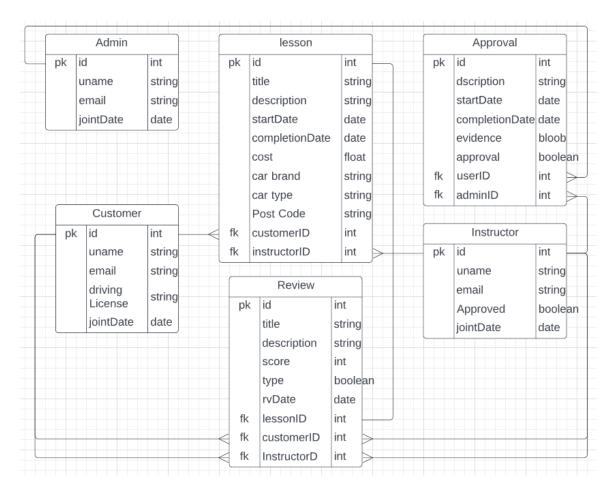
### Workflow

This section shows the planning of whole project to meet limit time. The <u>URL</u> included.



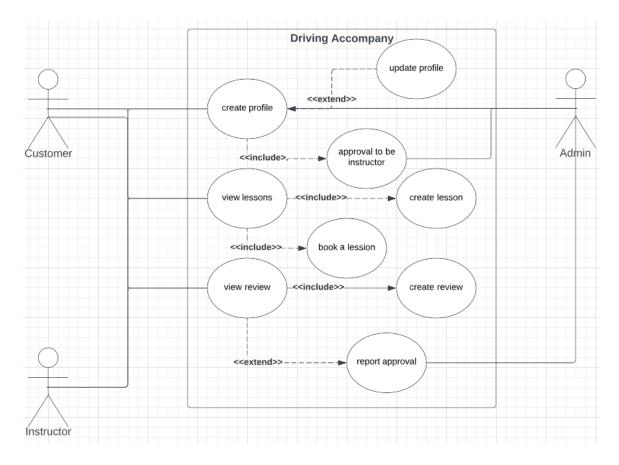
### ERD Diagram

This section shows the entity relationship diagram of project which allows the customer to check the lessons online, and to be approved for a new instructor base the evidence provided. Moreover, be able to write the interview about the driver.



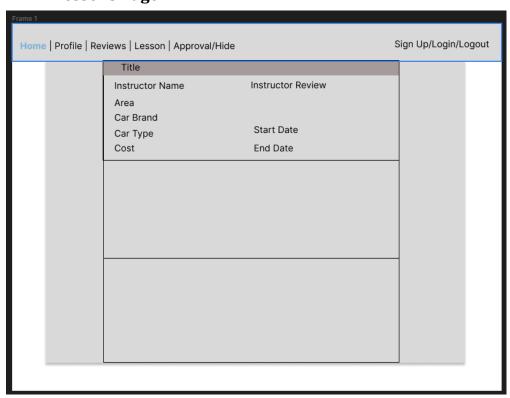
## Use Case Diagram

The following image show how users interact within the system in a basic level.

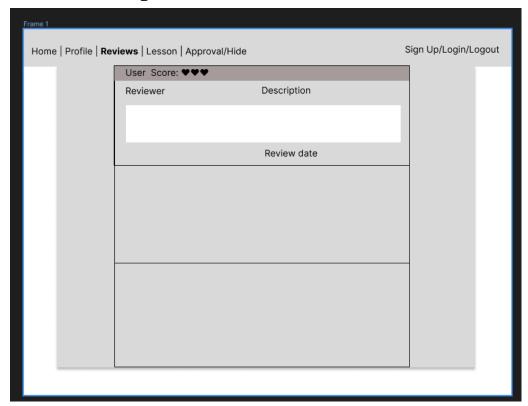


## WireFrame Diagram

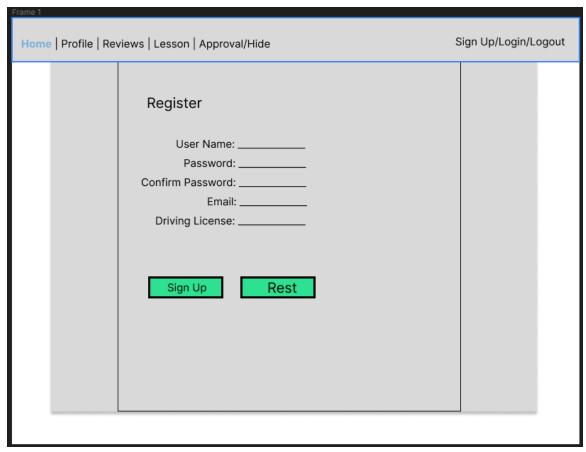
## 1. Lessons Page



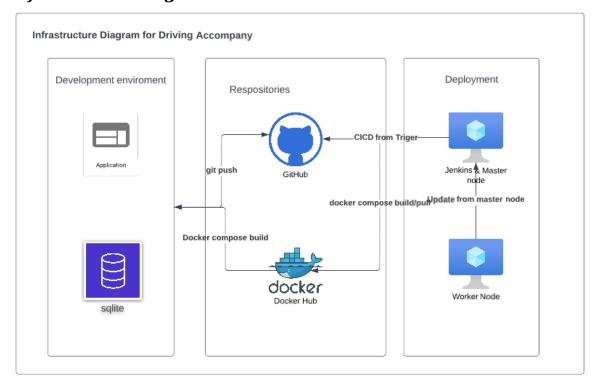
## 2. Review Page



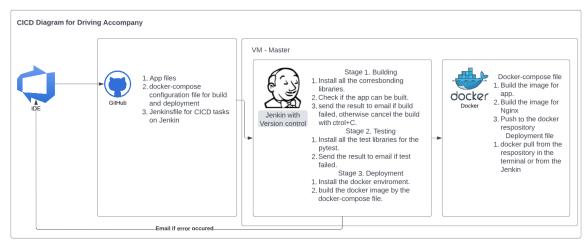
## 3. Sign Up Page



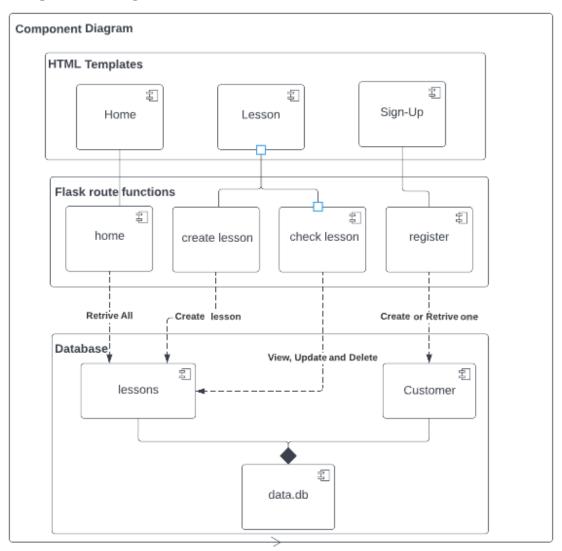
# Infrastructure Diagram



## CICD Diagram



# Component Diagram



# **Python Flask**

#### **Functions**

#### **Input Validation**

#### 1. Client-side validation

#### **Testing**

#### **CICD**

Pytest with Jenkins

```
azureuser@driving-accompany:~$ service jenkins start

==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ===
Authentication is required to start 'jenkins.service'.
Authenticating as: Ubuntu (azureuser)
Password: Failed to start jenkins.service: Method call timed out
See system logs and 'systemctl status jenkins.service' for details.
azureuser@driving-accompany:~$ polkit-agent-helper-1: pam_authenticate failed: Authentication failure
azureuser@driving-accompany:~$ service jenkins restart

==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ===
Authentication is required to restart 'jenkins.service'.
Authenticating as: Ubuntu (azureuser)
Password:
```

```
Build Steps
```

```
Execute shell ?

Command

See the list of available environment variables

cd /home/azureuser/Driving_accompany

pip install -r requirements.txt  
python3 -m pytest
```

## **Docker**

# **Bibliography**

shubham, n.d. *How to give Jenkins super user permission.* [Online]

Available at: <a href="https://www.edureka.co/community/39390/how-to-give-jenkins-super-user-permission">https://www.edureka.co/community/39390/how-to-give-jenkins-super-user-permission</a>

[Accessed 18 09 2022].