



DriverPass System Analysis

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6/24/23

System Requirements

Non-Functional:

- The system should perform at efficient speeds. There should be minimal lagging and bugs for any environment. User interface interactions should be responsive and reliable.
- The system should be analyzed and updated on a regular basis and should be updated by request or use case scenarios.

Functional:

Administrator Requirements:

- The system shall allow for students to be tracked.
- The system shall allow user information changes.
- The system shall support management of access, functionality, views, and security roles depending on user rights.
- The system shall allow to be viewed before publishing.
- The system shall support custom fields.
- User Registration and login
- The system shall validate user credentials when logging in.
- The system shall allow students to self- register into classes through the course catalog.



Use Case Diagram

Actors:

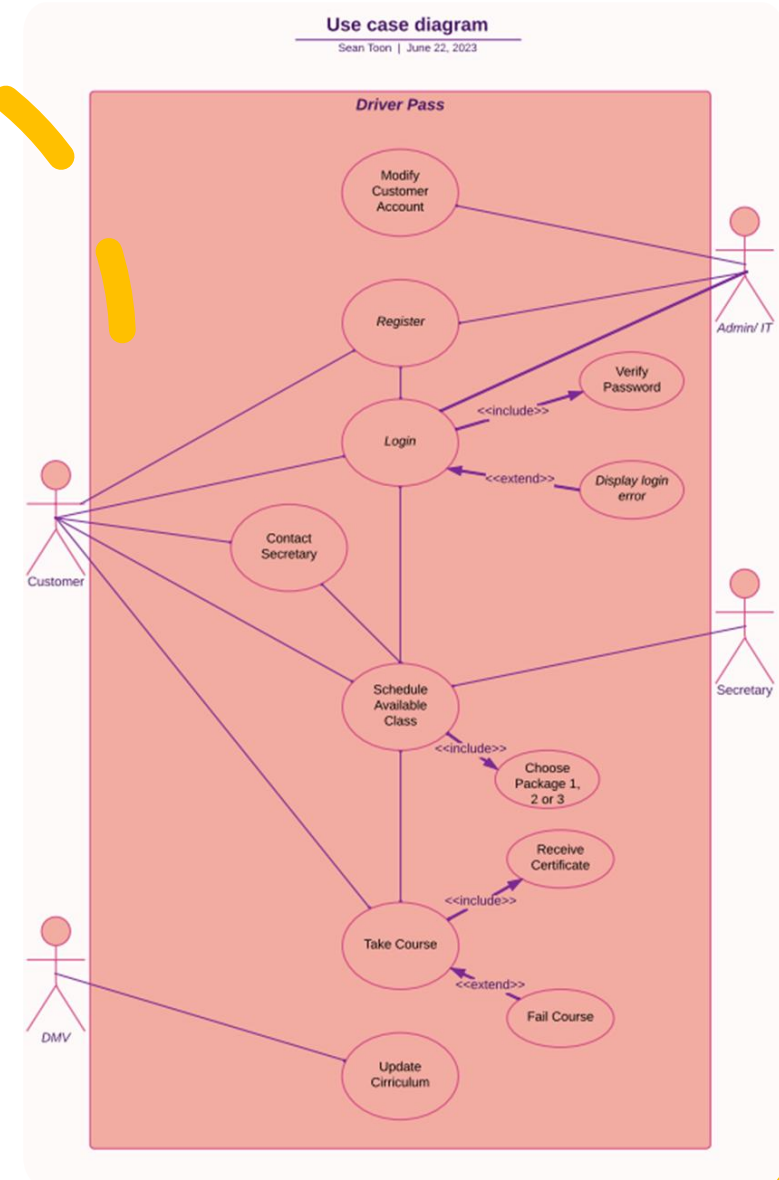
Admin/IT, Customer, Secretary, DMV

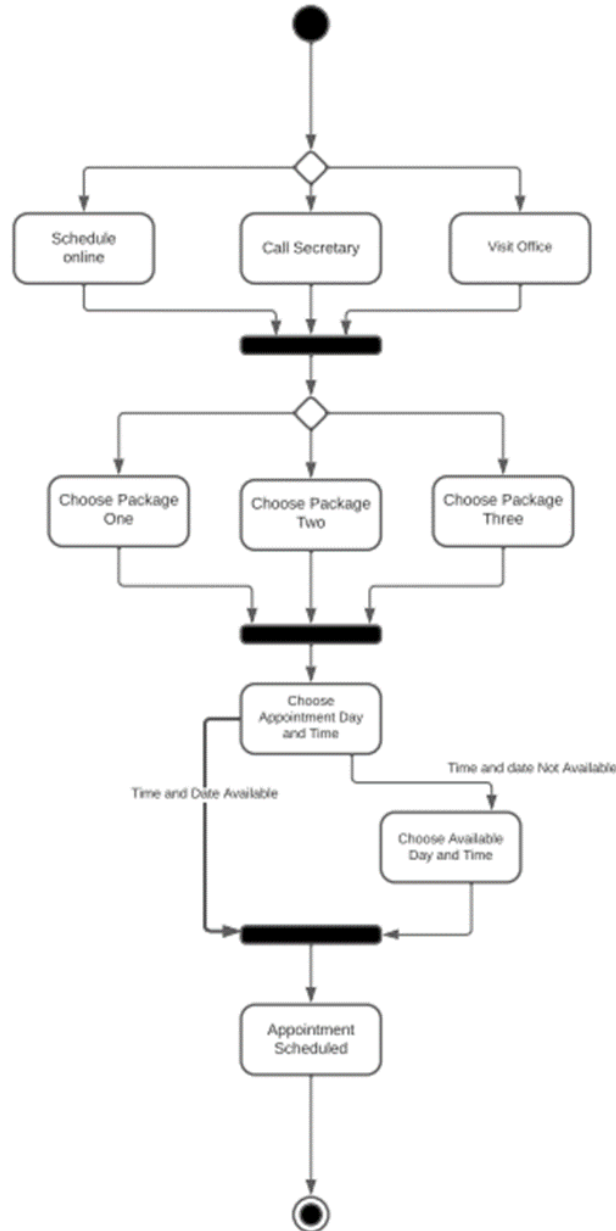
Use Cases:

Modify Customer Account, Register, Login, Contact Secretary, Schedule Available Class, Take Course , Update Curriculum.

Explanation:

In the DriverPass interview conducted by the Product Owner, the employees listed for the system were administrators, IT specialists, a secretary and an owner. Employees of DriverPass will handle most of the backend tasks of the website/business. DriverPass employees coordinate with customers to ensure that they are getting the extra driving skills needed with excellent customer care and support.





Activity Diagram

The activity diagram explains the process of scheduling an appointment with DriverPass. The customer can either schedule online, call the secretary or schedule in person. In either case the customer will have to pick a desired package and schedule a pick- up time that is available.

Security

- The system shall include data encryption, access controls, and protection against unauthorized access or data breaches.
- If there is a “brute force” hacking attempt on an account, the account needs to be suspended and locked by admin, and account member will need to be notified.
- If a user forgets their password, there will be options to reset the password through account email or account phone. If either option is not doable, admin or IT service will be available, and password can be changed with proof of identification.



System Limitations

- Limited integration capabilities
 - may have limited data exchange and interoperability with other educational or other external systems.
- Technical constraints
 - may have a tight or seemingly unachievable time limit.
 - may have limited resources.
 - may have limited project development expertise and physical capability.
 - may have insufficient funding.

