Updated 9/29/2019

Use Case for Regular Users

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| Name | Registration process |
| ID | UC\_01 |
| Description | To enable user to use the web resources for the driving test stimulation |
| Actors | Regular User |
| Organizational Benefits | Increase the chances of passing the MVA driving exam, educate users on the driving rules |
| Frequency of Use | Length of subscription, one time use |
| Triggers | Pass the driving test |
| Preconditions | Registration, Age, Name |
| Postconditions | Scores based on questions answered, graph comparison of result so far |
| Main Course | 1. Prompt for user login 2. Select if you are a User or Parent 3. User enters Personal information 4. Two factor authentication 5. Confirms authentication |
| Alternate Course | User account already exists   1. Redirect to Sign In |
| Exceptions | User is under the age of 18   1. Parent information will be needed   System fails to create account   1. Notify user that an error has occurred 2. Return user to beginning of registration |

Use Case for Parent

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| Name | Registration Process |
| ID | UC\_02 |
| Description | To enable parents to sign up their minors. To use the web resources for the driving test stimulation |
| Actors | Parent |
| Organizational Benefits | To allow a minor to be able to use the quiz and to keep track of their progress |
| Frequency of Use | Length of subscription or one time use |
| Triggers | Helping their child pass the driving test. |
| Preconditions | Name, Email, Birthday, Credit Card/Paypal, Social Media |
| Postconditions | Score based on the result, which courses their children took, graph showing their work so far |
| Main Course | 1. Prompt for user login 2. Select if you are a User or Parent 3. User enters Personal information 4. Two factor authentication 5. Confirms authentication |
| Alternate Course | User account already exists   1. Redirect to Sign In |
| Exceptions | System fails to create account   1. Notify user that an error has occurred 2. Return user to beginning of registration |

Use Case for Parent linking to a users account

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| Name | Account Linking |
| ID | UC\_04 |
| Description | Enables a parent to link their account to a users account. |
| Actors | Parent, User |
| Organizational Benefits | Allows the parent to view the users progress |
| Frequency of Use | Length of subscription or both users agree to discontinue linking accounts. |
| Triggers | Wanting to see the progress of the user |
| Preconditions | Creating the account, |
| Postconditions | Score based on the result, which courses their children took, graph showing their work so far |
| Main Course | 1. Prompt for user login 2. Select if you are a User or Parent 3. User enters Personal information 4. Two factor authentication 5. Confirms authentication |
| Alternate Course | Child account does not exist   1. Redirect to user registration page for child account |
| Exceptions | System fails to connect account   1. Notify user that an error has occurred 2. Return to Personal Information form to check reenter information |

Use Case for MVA/DOT User

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| Name | Data Access |
| ID | UC\_03 |
| Description | Gives the MVA/DOT employee the ability to access and search user data |
| Actors | MVA/DOT employee |
| Organizational Benefits | To access game score data and progress reports on registered users. |
| Frequency of Use | Unlimited |
| Triggers | Fetching Users information/scores, changing parent/user information, |
| Preconditions | Employee ID number, Test Scores, number of passed and failed user |
| Postconditions | Data must be stored and visible to the user  User must have method for querying data |
| Main Course | 1. Look up User in the system 2. Retrieve user data |
| Alternate Course | User doesn’t know how to utilize query   1. Provide contact for assistance in querying data |
| Exceptions | Database access is unavailable due to maintenance   1. Display server downtime message   System fails to query data   1. Display an error has occurred 2. Return user to query page |

Use Case for Admin

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| Name | Admin account access |
| ID | UC\_05 |
| Description | Allows admin to access the database and configure users |
| Actors | Admin |
| Organizational Benefits | Increase the speed of troubleshooting administrative issues, ensure appropriate policies and technical measures are installed and enforced, and make it easier to configure user and system settings. |
| Frequency of Use | Semi-frequent |
| Triggers | Admin user logins to system |
| Preconditions | System admin accounts created  Appropriate privileges according to responsibilities assigned |
| Postconditions | Admin is logged into system with dashboard displaying options and system information |
| Main Course | 1. Prompt for user login 2. Two factor authentication 3. Configure user accounts 4. Configure system settings 5. Backup system 6. Review system logs |
| Alternate Course | 1. Login into server hosting application and database directly |
| Exceptions | Admin decides to leave company or forgets login credentials   1. Have backup admin account   Unauthorized user tries to access admin account over web   1. Enforce minimum login attempts |

Sequence Diagram

New User/Subscriber

Payment Processor

Main Web Page

Database Server

Displays form

Submit information

Clicks register

User Registration Page

Create User

Process subscription

Send Confirmation

Click redirection link

Welcomes to main page

Access content