IskUber

Use Case Diagram

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Unique Reference:

The documents are stored in the IskUber GitHub Repository Link.

https://github.com/CrumbleThorn/IskUber

Document Purpose:

This document serves as the official Use Case Model Document for IskUber. It will provide an overview of the system's functionalities using a Use-case Diagram.

Target Audience:

This document is targeted towards software engineers who wish to learn about or extend the functionalities of the system.

Revision Control

History Revision:

Revision Date	***Person Responsible***	***Version Number***	***Modification***
09/21/17	Juan Gabriel Tamayo	1.0	Initial Document. Added Actors and Use-case entries.
09/22/17	Juan Gabriel Tamayo	1.01	Added minor entries.
09/22/17	Juan Gabriel Tamayo	1.1	Added Use-case Diagram, added descriptions for Actors and Use-case entries.
09/23/17	Luis Gabriel del Rosario	1.2	Completed descriptions for Actors and Use-case entries;
09/23/17	Juan Gabriel Tamayo	1.21	Fixed minor grammatical errors; Version number should match the one below.

System Name: IskUber

Description: IskUber is a system designed to connect willing drivers to passengers within UP Diliman, in order to have better utilization of vehicles within the campus. It will be accompanied by a mobile app, which will serve as the interface between the users and the system. Through the app, users may register accounts in order to use the passenger interface, where they can search for available drivers based on their travel schedule. The user may opt to have their accounts upgraded to driver accounts if they wish to use the driver interface, and have a vehicle that they can carpool with. Through the driver interface, they may view and accept passenger requests, and manage their registered vehicle information.

Use-Case Diagram:

Figure 1. Use-case Diagram for IskUber

List of Actors:

Actors	Description
Driver	App users who own a car and are willing to carpool with other app users within UP Diliman. They will be able to access the driver Interface where they can view and manage passenger requests. As of the time of this writing, drivers and passengers are not exclusive; Drivers may also use the passenger Interface if they wish.
Passenger	App users who are searching for rides to their destination. They are able to access the passenger Interface where they can search for drivers and manage their daily trips. They comprise the majority of the target users in the system.

List of Use-cases:

Use-Case	Description
Use-Case 1.0 Manage Driver Account	The driver can view the status of their driver account. Relevant information such as vehicle details and account credentials may be viewed here.
Use-Case 1.1 Create New Driver Account	In order to access the driver interface, the user must first create a driver account. The user may create a standalone driver account, or upgrade their passenger account into a driver account. This is to provide the user with distinct interfaces should they opt to upgrade an existing account.
Use Case 1.2 Update Driver Account Information	The driver can update their account information, such as vehicle details and account credentials. This is in case the driver updated the car the drive, or their contact numbers. This prevents confusion between the driver and the passenger.
Use Case 2.0 Define Driver Route	The driver inputs their entire class schedule, as well as timestamps when they would be bringing the vehicle. The schedules give the passengers an idea where the driver will be coming from.
Use Case 2.1 Modify Existing Route	In case of a change in class or car schedules, the driver may update their existing route. Here they may input their new schedule, as well as new timestamps for when they would be bringing the vehicle.
Use Case 3.0 Manage Passenger Requests	The driver may view the list of passengers that sent them a request. The list is sorted in chronological order, with the latest request on top. The driver may also view the credentials of each passenger that sent them a request.
Use Case 3.1 Accept Passenger Request	The driver may accept requests from passengers. The passenger will be added in the driver's list of current passengers.
Use Case 3.2 Reject Passenger Request	The driver may reject a request from a passenger should they feel they will be unable to fulfill the request, or if their vehicle can no longer accommodate them. The driver may optionally

	send a message to the passenger regarding the rejection of their request.
Use Case 4.0 Manage Account	Drivers and passengers may update their account credentials such as name and contact information. They may also update the security of their accounts by changing their passwords and recovery emails.
Use Case 4.1 Create New Account	If it is the first time the user is using the application, they must create a new account. The user must input their credentials such as name and contact information. They must also provide security to their accounts by creating a password and supplying recovery emails.
Use Case 4.2 Update Account Information	Users may change their account information. They may update their account credentials such as name and contact information. They may also update the security of their accounts by changing their passwords and recovery emails.
Use Case 5.0 Search For Available Drivers	The user inputs the route and time they wish to travel. A list of available drivers that may accommodate their request will be displayed.
Use Case 5.1 Update Search Criteria	The user may opt to update their search criteria if they made a mistake, or if they want to change their . An updated list of available drivers that may accommodate their request will be displayed.
Use Case 5.2 View Selected Driver's Details	The user may view the credentials of any driver on the list. The driver's credentials, such as name and contact information, will be displayed. The driver's routes and schedule will also be shown.
Use Case 5.3 View Complete Driver List	The user may view a list of all drivers registered in the system. The drivers will be sorted in alphabetical order.
Use Case 6.0 Manage User Requests	Users may send passenger requests to drivers. Once a desired driver is found, the user may send the driver a request.
Use Case 6.1 Send Passenger Request	The user may send a request to their specified driver. Travel details like path and time will be sent to the driver, along with an optional message from the user.
Use Case 6.2 Cancel Passenger Request	The user may cancel their passenger request if they made an incorrect request, or if they have found a better option. This may be done as long as the driver has not accepted the request yet.
Use Case 7.0 Manage User Trips	Users may view their current list of trips. The list consists of trips that drivers have accepted.
Use Case 7.1 Remove Trips	Users may remove trips from their current list of trips. This will inform the driver of their cancellation, and will revoke their slot from the respective driver's vehicle.