AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH

Faculty of Science & Technology

Project Cover Page

Project Title: AIUB perking Space Management System

Course Title: Object Oriented Analysis & Design

Section: B

Course Teacher: Rahman, Mohammod Hafizur

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Group Members:

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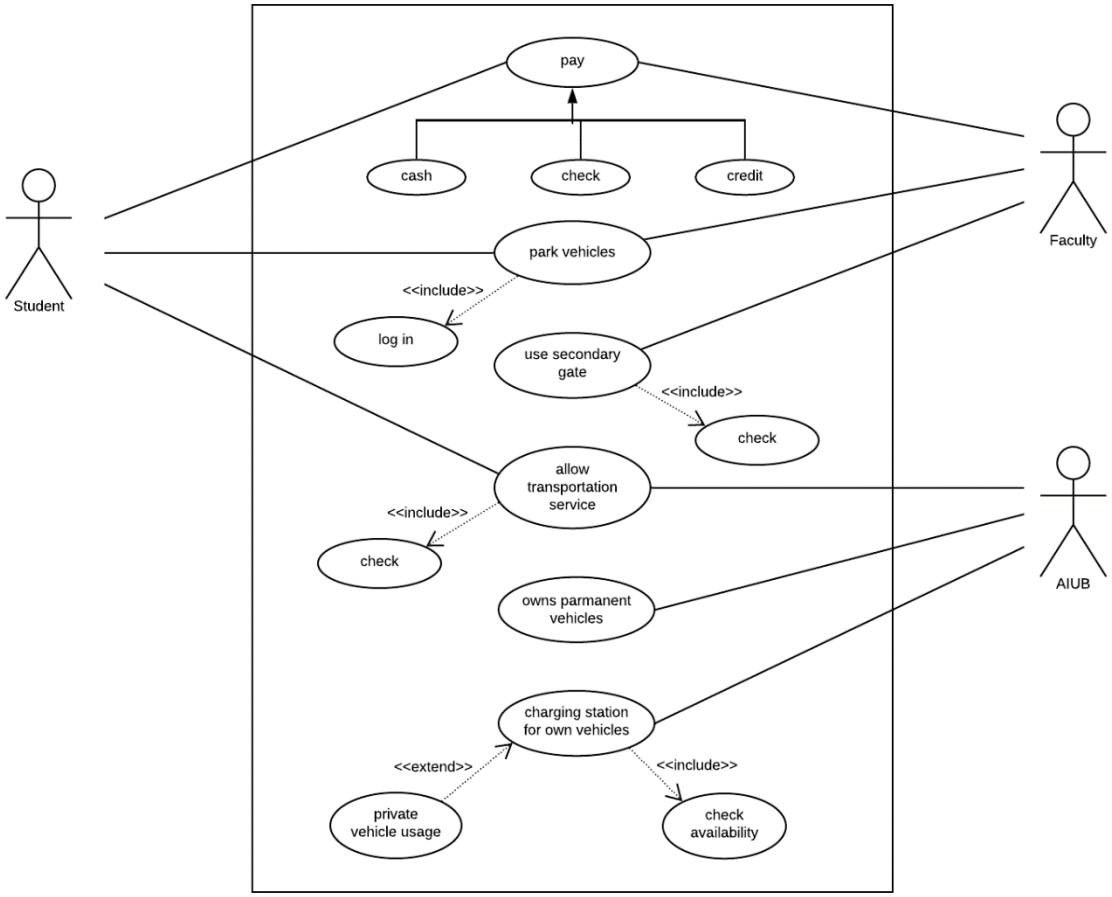
Problem Definition:

This design is about parking management system of AIUB. Both students and faculties are able to park their private vehicles in the parking area. AIUB arranges transportation system for students. All public vehicles are also able to stand in this parking lot. There is a charging station available for both public transport and private vehicles controlled by AIUB. Private vehicles may use this station as per wish but public transport must use this charging station. Faculties can use a secondary gate to park their vehicles at parking lot. One must log in with their id and password to enter the parking space. Various operation such as checking balance, verify log in, checking available space at parking lot will be done by the system then. If all condition approves successfully one can park a vehicles.

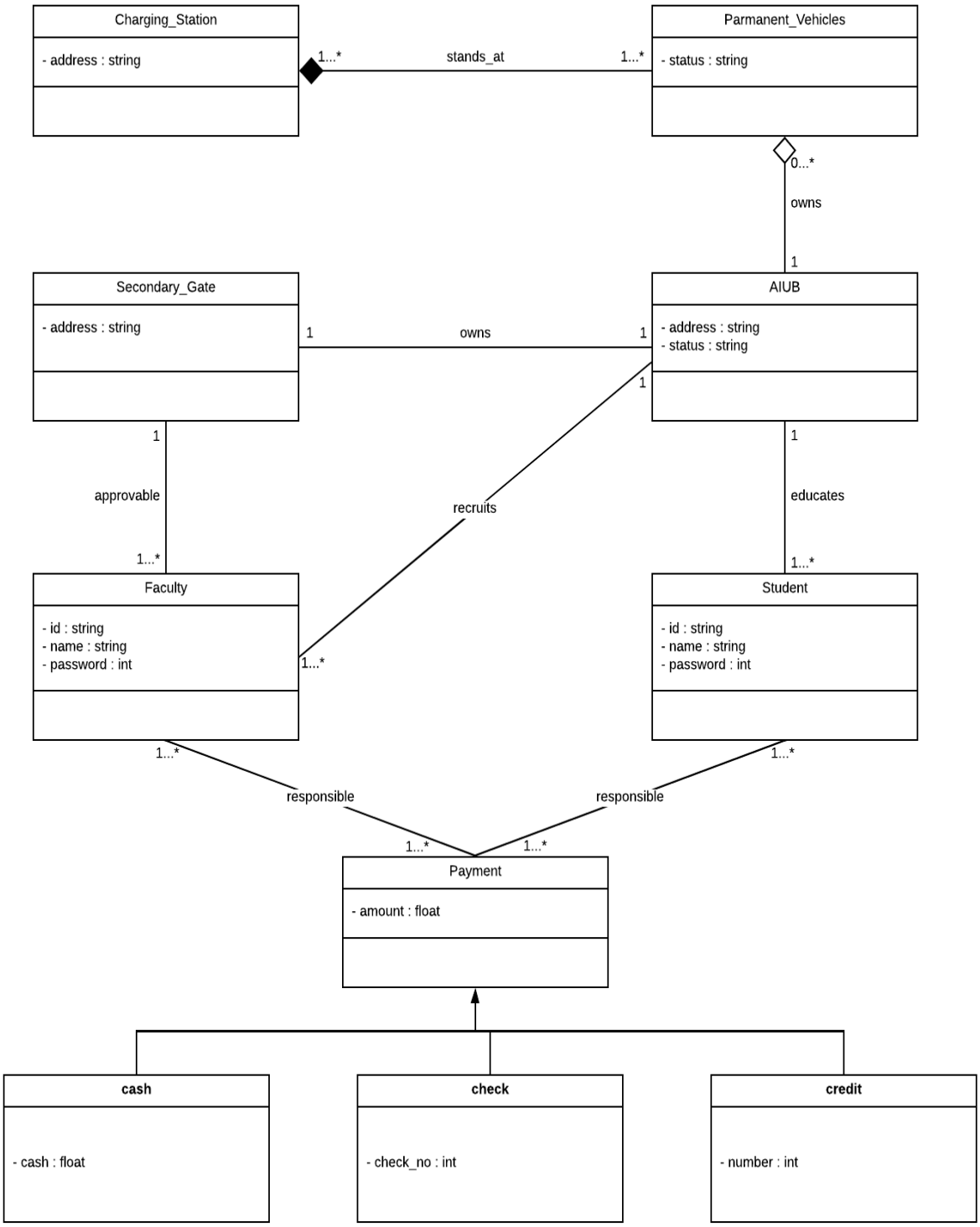
Use-Case Diagram:



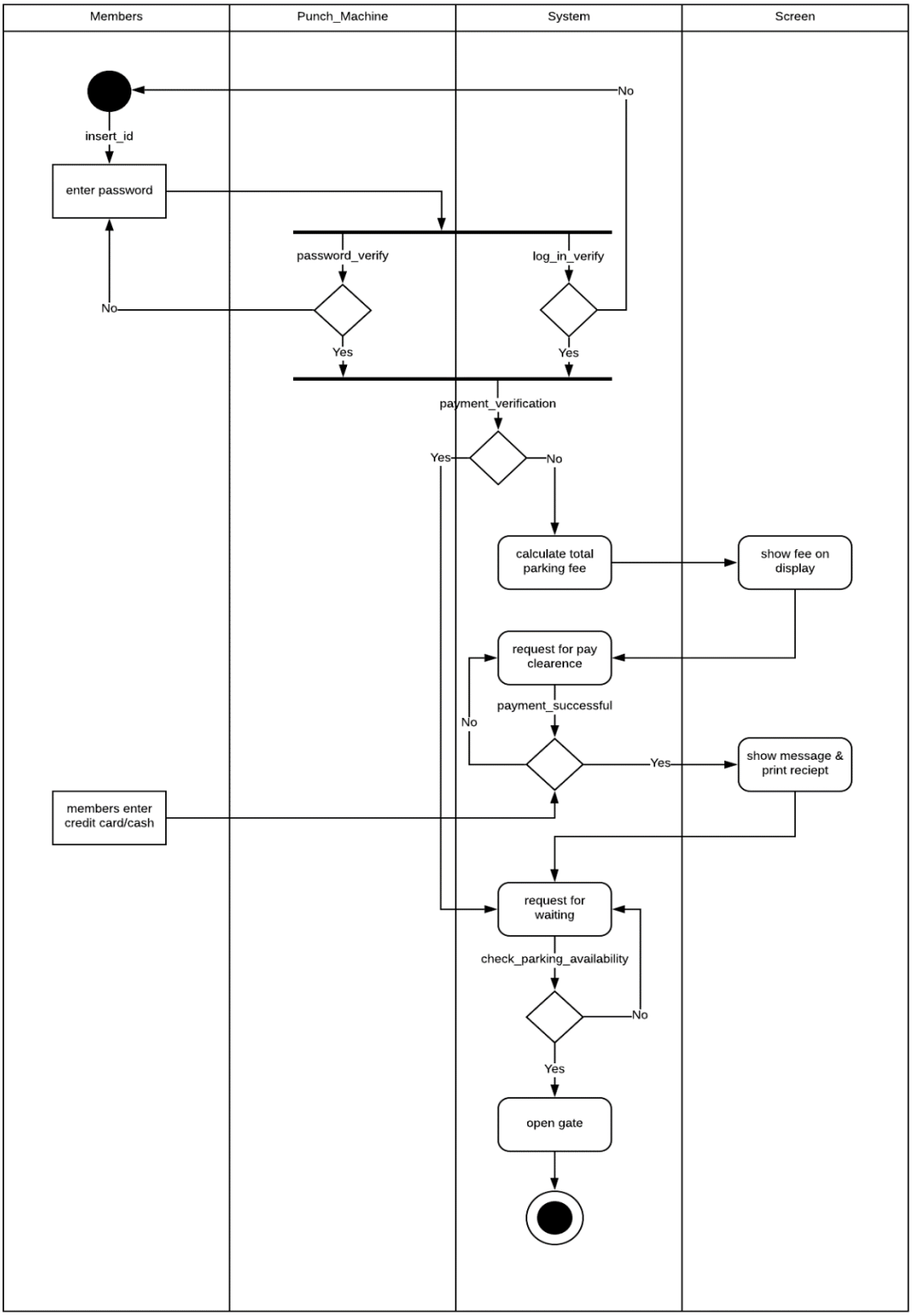
Use-Case Definition:

High level description	
	AIUB parking space management system which include gates, some privileged vehicles and some normal vehicles.
Actors	1. AIUB 2. Students 3. Faculty
Condition	
	1. Students & Faculties need to log in to the system 2. Vehicles need to be checked before using secondary gate 3. Status needs to be checked before allowing transporting service 4. Availability needs to be checked
Flow of events	
	1. The use-case starts when students and faculty log in to the system for parking their vehicles 2. After succeeding to log in , system ask for payment 3. Driver can pay through cash, card and check. After payment they can enter. 4. Some students can use charging station but system will check availability before letting them enter

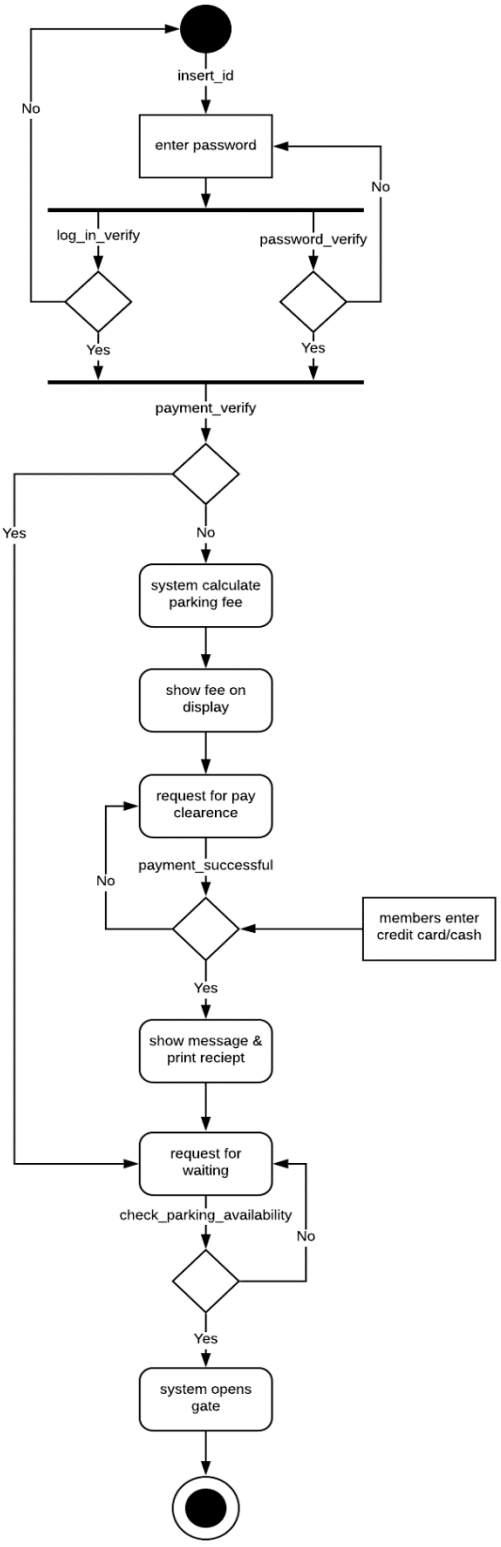
Class Diagram:



Activity Diagram:



State-Chart Diagram:



Sequence Diagram: