Task 2 – Context Sources



**Project**

CSE6224 Software Requirement Engineering   
Term 2510

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| **Tutorial Section** | TT2L |
| **Group** | Group E |
| **Project Title** | Campus Ride-Sharing Platform with  Parking System Integration |

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| **Name** | **Student ID** |
| Kelven Yee Kai Wen | 1211111244 |
| Koh Xuan Lin | 1211109618 |
| Ow Ka Sheng | 1211108820 |
| Shazreen Binti Sheridan | 243UC247P3 |

## **1.0 System Context Overview**

The platform connects university users through a carpool coordination tool with real-time parking data and verified access. It communicates with parking databases and ID authentication systems.

## **2.0 Context Objects**

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| **Context Object** | **Type** | **Description/Interaction** |
| MMU Single Sign-On (SSO) | Digital ID System | Authenticates only current students, staff, and lecturer for registration/login (User Onboarding & Digital ID Verification) |
| University Parking Database | External System/API | Provides real-time parking occupancy data (general vs. carpool-only zones) for map and reservation features |
| Mobile App Interface | User Interface | iOS/Android front-end through which users view rides, parking maps, notifications, chat, and rewards |
| Notification Service | Messaging Service | Push notifications for ride confirmations, cancellations, parking reservations, and incentive milestones |
| Carpool Matching Engine | Core Business Logic | Matches ride offers and requests; drivers manually approve/decline passenger joins (Ride Offer & Request) |
| Reward Points Service | External Service | Tracks points earned/redeemed for parking priority, bookstore vouchers, meal discounts, and leaderboard badges (Parking Availability & Incentives) |
| In-App Chat Service | Communication Module | Enables matched drivers/riders to coordinate pickup/drop-off details (Communication & Notifications) |

## 3.0 Requirement Sources

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| **Source Name** | **Source Type** |
| Students | Primary Stakeholder |
| Lecturers & Staff | Primary Stakeholder |
| Parking Admin Team | Secondary Stakeholder |
| IT & Security Office | Secondary Stakeholder |
| University Leadership | Secondary Stakeholder |
| Project Team | Internal Stakeholder |
| MMU SSO / Authentication Docs | Existing Documentation |
| Parking System API Docs | Existing Documentation |
| Kumpool | Existing System |