# Context Objects:

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| Type | Context Object |
| Material | Students, Faculty, Staff, Admin, Mobile Device |
| Immaterial | Parking Management System, Digital ID System, University Policies, Network, Campus Email System |

# Three Type Facet:

* Subject Facet:
  + System context objects about which information is represented in the system.
* Usage Facet:
  + System context objects (people and/or systems) which directly or indirectly interact with the system.
* IT System Facet: (NOT SURE)
  + System context objects of the technical and operational environment in which the system is going to be deployed
  + (External software systems or IT infrastructure that your system directly communicates with or depends on for its operation.)

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| --- | --- | --- |
| Subject Facet | Usage Facet | IT System Facet |
| Student  Faculty  Staff  Admin  University Policies | Student User Group  Faculty User Group  Staff User Group  Admin User Group  Mobile Device  Parking Management System  Campus Email System  Network | Parking Management System  Digital ID System  Campus Email System  Network |

# Properties of System Context Objects:

Subject Facet:

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| --- | --- |
| Student | * ID * Name * Matriculation status (undergraduate) |
| Faculty | * ID * Department * Carpool eligibility |
| Staff | * ID * Work unit * Role (Teacher, Cleaning Staff) |
| Admin | * ID * Role (System Admin) |
| University Policies | * Parking rules |

Usage Facet:

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| --- | --- |
| Student User Group | * Manage rides * Create rides * Joins rides * Book parking * Sets ride preferences * View parking status * Review drivers |
| Faculty User Group | * Manage rides * Create rides * Joins rides * Book parking * Sets ride preferences * View parking status * Review drivers |
| Staff User Group | * Manage rides * Create rides * Join rides * Book parking * Sets ride preferences * View parking status * Review drivers |
| Admin User Group | * Manage users * Manage certain system functions * Handle backend setup * Monitor parking data * Approve ride and parking data * Access admin dashboard |
| Mobile Device | * Location access * Push notifications |
| Parking Management System | * User sees live parking status * Manage ride access * User interface |
| Campus Email System | * Send ride alerts to users * Notification logs |
| Network | * Transmit data |

IT System Facet:

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| --- | --- |
| Parking Management System | * API endpoint * Update real-time parking data * Data format |
| Digital ID System | * Active/inactive user check * ID authentication |
| Campus Email System | * Email formatting templates * SMTP |
| Network | * API routing * Bandwidth capacity |

Sources of requirements:

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| --- | --- |
| Sources | Contribution |
| Students | Define ride needs, UI expectations, timing preferences |
| Surveys | Expectations, usage habits |
| Existing Apps (Grab, Uber) | Basic features, app policies |
| University | Campus regulations, parking rules |