## 3.2 **Functional Requirements**

3.2 Functional Requirements
3.2.1 Types of users
1. Students
  Undergraduate
  Post-graduation
2. Employees
  Teachers
  Administrative information
  Internal builders
3. Visitors
  Parents
  External manufacturers
  Potential students
  Walk-ins
4. Administrator
  UP-Officials
  Student Societies
  UP- Event Management
3.2.2. Periodicity of use cases

   A. Reviews
   - The user adds the destination
   - The application determines the location of the user
   - A user must be able to see the building names to the extent that it exceeds
   - A user must specify the type of access
   - A user must be able to see the campus map without looking for a location
   - Sites should be grouped into categories
   - A user must select a destination in the category without the size
   - A user must see all roads in the location
   - A user must be able to specify the restrictions for the best route
   - Handicaps
   - Avoiding traffic congestion
   - The user must be able to see the time of arrival
   B. Important
   - The UP administrator must be able to update the premises
   - The application must be synchronized with the university calendar
   - The event manager must be able to update events on the application
   - Places must be associated with events taking place there
   - UP Student Societies must be able to update their application schedules
   - Register all activities
   - Save user preferences
   C. Good to have
   - Fitness track
   - A brief history of the campus as the user transmits it
   - Reward system if certain archived steps

## A. Use Cases

## 0. NavUP

### 2. Select Destination

- 2.1 Navigate to Campus Map
- 2.2 Select A Venue
- 2.2.1 Search Database

  **extension points**
  Venues Of interest to User along the

Student/Visitor/Employee

UP Server

<<Include>>

<<Extends>>

Choose the way to select a Venue

<<Extend>>
Database load all venues of intrest

**Choose Venue By**

- 2.2.B Drop A pin on the Map
- 2.2.C Select Venue From A category
- 2.2.A Type the Name of the Venue

- 2.2.2 Load All Venues Of interest to User along the route

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## 0.NavUp

### 3. Route_User

Student/Visitor/Employee

- 3.2 Navigate User To venue
- 3.4 Display Arrival time

System Time

- 3.3 Specify Constrains For best Route

UP Server

<<Extehd>>

GPS/ Wifi

**3.3.1 Choose Constraint From :**

- 3.3.1.A Disability route
- 3.3.2 Route with less pedestrian traffic

- 3.1 Get User's Location

<<Include>>

<<Include>>

**Diagram 1: 0. NavUP — 4. Campus Events**

- UP_Admin/Events Manager
- Campus Calender
- Student Societies
- App Detabase
- 4.1 Sync App With Campus Calender
- 4.2 Associate Buildings with events
- 4.3 Update events on App
- <<Include>>
- <<Include>>

**Diagram 2: 0. NavUp — 5. User Fitness**

- Student/Visitor/Employee
- GPS/Wifi
- Reward Sydtem
- Student/Visitor/Employee
- UP Server
- 5.1 Keep Track of user Movements
- 5.2 View fitness progress
- 5.3 Set fitness goals
- 5.4 Reward user when a millstone is archived
- 5.5 Display Fun Facts about Campus