London Underground Test Plan

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# Manage Stations

## Add Station

|  |  |
| --- | --- |
| Test Number | 1 |
| Test Title | Add station |
| Actor | Station Manager |
| Description | Add a new station using the controller |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Click **Manage Stations** 3. Set **Station Name** to ‘a test station name’ 4. Select **Zone** from dropdown box 5. Click **Add** |
| Expected Result | 1. Message confirming that station with specified name was added to selected zone number 2. New station with the specified name and zone added to bottom of the list of stations |

## Request Station

### By Name

|  |  |
| --- | --- |
| Test Number | 2 |
| Test Title | Get Station details by Name |
| Actor | Station Manager, Traveller |
| Description | Request station details by name. |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. Ticket Machine web app running 4. Ticket Machine web app available at <http://localhost/ticket> |
| Steps | 1. Navigate to <http://localhost/ticket> 2. Click **Register Ticket Machine** 3. Select **Station** from dropdown list 4. Click **Apply Changes** 5. Click **Return to Main Menu** 6. Click **Start Sales Kiosk** |
| Expected Result | 1. Start set to configured station name and zone |

### By ID

|  |  |
| --- | --- |
| Test Number | 3 |
| Test Title | Get Station details by ID |
| Actor | Station Manager |
| Description | Retrieve a station’s details by its ID |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. At least one station previously added |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Click **Manage Stations** 3. Click **Modify** next to one of the listed stations |
| Expected Result | 1. **Station Name** populated with details of selected station 2. **Zone** populated with zone number of selected station |

## Update Station

|  |  |
| --- | --- |
| Test Number | 4 |
| Test Title | Update station name and zone |
| Actor | Station Manager |
| Description | Update a station’s name and / or zone |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. At least one station previously added |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Click **Manage Stations** 3. Click **Modify** next to one of the listed stations 4. Change **Station Name** 5. Select different **Zone** from dropdown 6. Click **Update** |
| Expected Result | 1. Message stating that a station has been updated 2. Selected station’s name changed to new name 3. Selected station’s zone changed to selected zone |

## Delete Station

|  |  |
| --- | --- |
| Test Number | 5 |
| Test Title | Remove a station from the system |
| Actor | Station Manager |
| Description | Delete station by ID |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. At least 1 station previously added |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Click **Manage Stations** 3. Click **Delete** next to one of the listed stations |
| Expected Result | 1. Message stating that selected station was deleted 2. Station no longer appears in the list of stations |

## List All Stations

|  |  |
| --- | --- |
| Test Number | 6 |
| Test Title | List all stations in the system |
| Actor | Station Manager |
| Description | To be able to manage stations the Station Manager must be able to see which stations are in the system |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. System must be initialised |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Click **Manage Stations** |
| Expected Result | 1. List of stations displayed |

|  |  |
| --- | --- |
| Test Number | 7 |
| Test Title | List all stations in the system |
| Actor | Traveller |
| Description | Traveller’s purchasing tickets must be able to see a list of the available destinations |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. Ticket Machine web app running 4. Ticket Machine web app available at <http://localhost/ticket> 5. System must be initialised |
| Steps | 1. Navigate to <http://localhost/ticket> 2. Click **Register Ticket Machine** 3. Select **Station** from dropdown list 4. Click **Apply Changes** 5. Click **Return to Main Menu** 6. Click **Start Sales Kiosk** |
| Expected Result | 1. Destination dropdown populated with list of stations and their zones |

## Delete All Stations

|  |  |
| --- | --- |
| Test Number | 8 |
| Test Title | Delete all stations |
| Actor | Developer |
| Description | During testing, system updates and system deployment it may be necessary to reinitialise the system by removing all configured entities and reloading them from a master source.  NOTE: The initialise function will also remove all changes to previously configured ticket machines and pricing details |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Use the **Manage Stations** menu to add stations 3. Navigate to <http://localhost/lunderground> 4. Click **Initialise** |
| Expected Result | 1. Station List restored to list from LondonStations.xml file |

## Initialise System

|  |  |
| --- | --- |
| Test Number | 9 |
| Test Title | Reinitialise the system to use master station list |
| Actor | Developer |
| Description | During testing, system updates and system deployment it may be necessary to reinitialise the system by removing all configured entities and reloading them from a master source.  NOTE: The initialise function will also remove all changes to previously configured ticket machines and pricing details |
| Preconditions | 1. Controller web app running 2. Controller web app available at http://localhost/lunderground |
| Steps | 1. Navigate to <http://localhost/lunderground> 2. Use the **Manage Stations** menu to add stations 3. Navigate to <http://localhost/lunderground> 4. Click **Initialise** |
| Expected Result | 1. Station List restored to list from LondonStations.xml file |

# Manage Ticket Machines

## Register Ticket Machine

|  |  |
| --- | --- |
| Test Number | 10 |
| Test Title | Register newly installed ticket machine |
| Actor | Station Manager |
| Description | Ticket machines have a hardware module with a unique ID. On start up the loaded value, in software, will be null. Registering will read the value from the hardware and then register the machine with the central controller using that uuid. |
| Preconditions | 1. Controller web app running 2. Controller web app available at <http://localhost/lunderground> 3. Ticket Machine web app running 4. Ticket Machine web app available at <http://localhost/ticket> |
| Steps | 1. Navigate to <http://localhost/ticket> 2. Click **Register Ticket Machine** |
| Expected Result | 1. The Configure Ticket Machine view should be displayed 2. The uuid field should contain a 32-character uuid 3. The uuid characters should only contain hexadecimal glyphs 4. The uuid should be formatted as: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx 5. The station name should be listed as ‘Not Configured’ |

## Update Ticket Machine

|  |  |
| --- | --- |
| Test Number | 11 |
| Test Title | Update the ticket machine configuration to assign it to a station |
| Actor | Station Manager |
| Description | Newly register ticket machines need to be assigned to a station so that they are capable of issuing valid tickets. |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Request Ticket Machine Configuration

|  |  |
| --- | --- |
| Test Number | 15 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

# Synchronise Prices

|  |  |
| --- | --- |
| Test Number | 16 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

# Purchase Ticket

## Purchased Single Zone Ticket

|  |  |
| --- | --- |
| Test Number | 17 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Purchased Single Zone Ticket

|  |  |
| --- | --- |
| Test Number | 18 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Purchase Peak Time Ticket

|  |  |
| --- | --- |
| Test Number | 19 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Purchase Off Peak Time Ticket

|  |  |
| --- | --- |
| Test Number | 20 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

# Validate Ticket

## Enter Station

|  |  |
| --- | --- |
| Test Number | 21 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Exit Station

|  |  |
| --- | --- |
| Test Number | 22 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Ticket Valid

|  |  |
| --- | --- |
| Test Number | 23 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Ticket Zone Invalid

|  |  |
| --- | --- |
| Test Number | 24 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Ticket Time Invalid

|  |  |
| --- | --- |
| Test Number | 25 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |

## Ticket Invalid

|  |  |
| --- | --- |
| Test Number | 26 |
| Test Title |  |
| Actor |  |
| Description |  |
| Preconditions |  |
| Steps |  |
| Expected Result |  |