Muhammad Arslan Mehmood (s277153)

**EZGas Application Requirements**

**Abstract:**

EzGas will be a crowdsourcing service that allows users to collect prices of fuels in different gas stations and it will locate gas stations in an area, along with the prices they practice .

**Stakeholders:**

|  |  |
| --- | --- |
| **Stakeholder Name** | Description |
| User | Who check the price of gas and nearby gas station |
| Developer | He who develops the application |
| Gas Stations | System that provides a list of gas stations to the application |
| Owner | Who update the prices of fuel. |

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|  |  |  |
| --- | --- | --- |
| **Actor** | **Logical Interface** | **Physical Interface** |
| User | GUI | Screen of Smartphone |
| Owner | Web Service | Internet Connection |

**Personas and stories:**

Ali wanted to fill the cheap gas but the gas prices everyday up and down and he does not wanted to go gas station every time to check the price.

John is a Ownerof EZgas Application he updated every day all the prices.

**Scenarios, cases and case diagram:**

|  |  |
| --- | --- |
| **Scenario 1** |  |
| Description | Gas prices get lower, John needs to update his prices |
| Precondition | John has a lower prices, but anyone knows |
| Postcondition | John has lower prices, and it’s sponsored on EZGas |
| Step 1 | John log into his own EZGas account |
| Step 2 | John select the current prices of his gas and publish |

|  |  |
| --- | --- |
| **Scenario 2** |  |
| Description | Ali is out of gas and want cheap prices |
| Precondition | Ali doesn’t know where the gas is cheaper |
| Postcondition | Ali has detailed information about his area’s stations |
| Step 1 | Ali log into his customer EZGas account |
| Step 2 | Ali select his location and the desired filters (area range, desired prices) |
| Step 3 | Ali can leave a feedback after the service |

**Use Case:**

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**Functional requirements:**

|  |  |
| --- | --- |
| **Functional requirement** | *Description* |
| FR1 | Check the current prices in selected area |
| FR2 | Look for stations using the desired filters |
| FR3 | Give feedback to gas station (only customers) |
| FR4 | Update own prices (only owners) |

**Non-functional requirements:**

|  |  |  |
| --- | --- | --- |
| **Non-functional requirement** | *Type* | *Description* |
| NFR1 | Performance | Even with a lot of stations and filters, any research can’t take more than 5 seconds |
| NFR2 | Statistics | Give the user and the owner the statistics about prices for each gas station and the trend in the area |
| NFR3 | GUI | The application should be easy to understand and to use |
| NFR4 | Usability | The application is easy to install |
| NFR5 | Contact | A way to contact the station |

**Conceptual diagram:**

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