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| --- | --- | --- |
| Use case name | Schedule System Process | |
| Source | QA employee | |
| Trigger event | User specifications | |
| Brief description | QA chooses the frequency of data collection. | |
| Related Use case | none | |
| Actor | QA employee | |
| Preconditions | QA must be an authorized personnel | |
| Post conditions | Schedule is set | |
| Flow of events | actor | System |
| 1. sets job schedule |  |
|  | 2. set job schedule |
| Exception conditions | No job schedule is set | |

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| --- | --- | --- |
| Use case name | Perform screen scraping and data parsing | |
| Source | System | |
| Trigger event | Preset task schedule | |
| Brief description | The system performs data gathering | |
| Related Use case | Schedule System Process | |
| Actor | None | |
| Preconditions | 1. Job schedule is set  2. Selenium parameters are set | |
| Post conditions | Data gathering is performed | |
| Flow of events | actor | System |
|  | 1. System triggers job schedule |
|  | 2. system collects data |
|  | 3. system parses data |
| Exception conditions | 1. Job schedule is not set  2. Parameters are not set | |

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| --- | --- | --- |
| Use case name | Write review | |
| Source | Customer | |
| Trigger event | Customer review | |
| Brief description | The customer writes a review and rates his stay at the hotel | |
| Related Use case | Book a hotel | |
| Actor | Customer | |
| Preconditions | 1. Customer book the hotel using the system  2. The customer has stayed and has finished his stay at the hotel  3. the customer is emailed an invitational link to rate and review his stay | |
| Post conditions | The review is accepted as genuine | |
| Flow of events | actor | System |
|  | 1. send invitational link to customer |
| 2. accept and write a review and rate the hotel |  |
|  | 3. review is accepted as genuine |
| Exception conditions | Customer did not stay at the hotel | |

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| --- | --- | --- |
| Use case name | Modify Selenium Parameters | |
| Source | QA employee | |
| Trigger event | User specifications | |
| Brief description | The QA employee sets the parameters for data extraction | |
| Related Use case | none | |
| Actor | QA employee | |
| Preconditions | QA must be authorized personnel | |
| Post conditions | parameters are set | |
| Flow of events | actor | System |
| 1. QA Sets the parameters |  |
|  | 2. System uses chosen parameters |
| Exception conditions | No specific parameters are chosen | |

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| --- | --- | --- |
| Use case name | Filter analysis | |
| Source | QA employee | |
| Trigger event | Parameter request | |
| Brief description | The user is prompted to specify the date range to display data | |
| Related Use case | View analysis | |
| Actor | QA employee | |
| Preconditions | Existing data | |
| Post conditions | date range is set | |
| Flow of events | actor | System |
|  | 1. prompt user for date range |
| 2. set date range |  |
|  | 3. Display Filtered Data |
| Exception conditions | Date range is not set | |

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| --- | --- | --- |
| Use case name | Modify dictionary | |
| Source | QA employee | |
| Trigger event | User specifications | |
| Brief description | The QA employee categorizes unknown sentiments found in the reviews | |
| Related Use case | none | |
| Actor | QA employee | |
| Preconditions | QA must be authorized personnel | |
| Post conditions | Dictionary is updated | |
| Flow of events | actor | System |
|  | 1. prompt user for new entries |
| 2. categorize sentiments |  |
|  | 3. update dictionary |
| Exception conditions | No new unknown sentiments are found | |

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| --- | --- | --- |
| Use case name | View analysis | |
| Source | 1. QA employee 2. Management | |
| Trigger event | User report inquiry | |
| Brief description | QA or management wants to view the analysis of sentiments | |
| Related Use case | none | |
| Actor | 1. QA employee  2. Management | |
| Preconditions | data analysis is already finished | |
| Post conditions | Current data analysis is shown | |
| Flow of events | actor | System |
| 1. request for data analysis |  |
|  | 2. display data analysis |
| Exception conditions | There is no existing data analysis | |

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| --- | --- | --- |
| Use case name | Perform lexicon based sentiment analysis | |
| Source | System | |
| Trigger event | Data gathering completed | |
| Brief description | QA or management wants to view the analysis of sentiments | |
| Related Use case | Perform screen scraping and data parsing | |
| Actor | None | |
| Preconditions | Data gathering completed | |
| Post conditions | Sentiment analysis is finished | |
| Flow of events | actor | System |
|  | 1. Perform lexicon based sentiment analysis |
| Exception conditions | There is no existing data gathered | |