[**Show City Advantages and Disadvantages] Use Case**

Document Information

|  |  |
| --- | --- |
| **Document Title** | Show City Advantages and Disadvantages |
| **Version** | *1.0* |
| **Status** | *Draft* |
| **Date** | *12/8/2024* |

Brief Description

*This use case describes the process through which an end user views the advantages and disadvantages of a specific city.  
Starts with: The user is on the dashboard page.  
Ends with: The user views the city's advantages and disadvantages on the city statistics page.*

Actors

End user

Pre-Conditions

NULL

Basic Flows

1. *The user navigates to the dashboard page. (User Action)*
2. *The website displays a list of cities on the dashboard. (System Response)*
3. *The user selects a city from the list and clicks on it. (User Action)*
4. *The website sends get request to the backend server to fetch city related data. (System Action)*
5. *The backend server processes the request and responds to the request with city-related data in JSON format. (System Action)*
6. *The website receives the data. (System Response)*
7. *The website navigates the user to the city statistics page. (System Response)*
8. *The website displays the advantages and disadvantages of the selected city. (System Response)*

Alternate/Exception Flows

*5a. The backend server failed to processes the request. (System Action)*

*5b. The backend server send message “Something went wrong” (System response)*

*5c. The system returns the user to step 3. (System Action)*

Post Conditions

*User should be able to see city statistics (Advantages and disadvantages).*

[**Show Tourist Attraction Advantages and Disadvantages] Use Case**

Document Information

|  |  |
| --- | --- |
| **Document Title** | Show Tourist Attraction advantages and disadvantages |
| **Version** | *1.0* |
| **Status** | *Draft* |
| **Date** | *12/8/2024* |

Brief Description

*This use case describes the process through which an end user views the advantages and disadvantages of a specific tourist attraction.  
Starts with: The user is on the dashboard page.  
Ends with: The user views the city's statistics advantages and disadvantages on the city statistics page.*

Actors

End user

Pre-Conditions

NULL

Basic Flows

1. *The user navigates to the dashboard page. (User Action)*
2. *The website displays a list of cities on the dashboard. (System Response)*
3. *The user selects a city from the list and clicks on it. (User Action)*
4. *The website sends get request to the backend server to fetch city related data. (System Action)*
5. *The backend server processes the request and responds to the request with city-related data in JSON format. (System Action)*
6. *The website receives the data. (System Response)*
7. *The website navigates the user to the city statistics page. (System Response)*
8. *The website displays a list of tourist attraction for the city. (System Response)*
9. *The user selects a tourist attraction and click on it. (User Action)*
10. *The website sends get request to the backend server to fetch tourist attraction related data. (System Action)*
11. *The backend server processes the request and returns the tourist attraction related data in JSON format (System Action)*
12. *The website receives the data (System response)*
13. *The website navigates the user to the tourist attraction statistics page. (System Response)*
14. *The website displays the advantages and disadvantages of the selected tourist attraction. (System Response)*

Alternate/Exception Flows

*5a. The backend server failed to processes the request. (System Action)*

*5b. The backend server send message “Something went wrong” (System response)*

*5c. The system returns the user to step 3. (System Action)*

*11a. The backend server failed to processes the request. (System Action)*

*11b. The backend server send message “Something went wrong” (System response)*

*11c. The system returns the user to step 9. (System Action)*

Post Conditions

*User should be able to see tourist attraction statistics (Advantages and disadvantages).*

***Scenario for "Identify Improvement Opportunities" Use Case***

***Actors:***

* ***Administrator*** *or* ***Tourism Authority/Business Owner***

***Preconditions:***

* *The user has logged into the system with appropriate permissions.*
* *The system has processed sentiment data and NLP insights in the database.*

***Main Flow:***

1. *The user selects the "Identify Improvement Opportunities" option from the dashboard.*
2. *The user selects the city.*
3. *The system retrieves processed data (sentiment analysis, common problems, likes/dislikes) for the selected city from the database.*
4. *The system identifies key areas needing improvement by analyzing:*
   * *Most frequent complaints about cities, attractions, or activities.*
   * *Low satisfaction scores for specific locations or demographics.*
   * *Trends showing decreasing popularity over time.*
5. *The system displays prioritized recommendations, such as:*
   * *"Improve accessibility to XYZ attraction."*
   * *"Enhance cleanliness in ABC city."*
   * *"Focus on promoting cultural activities for European tourists."*
6. *The actor reviews the recommendations and optionally explores detailed data or exports the insights.*

***Postconditions:***

* *The actor understands critical improvement areas and has actionable insights to address them.*