**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD**

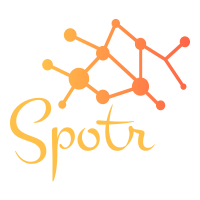
**Software Engineering**

Instructor: Abhishek Sir

TRACEABILITY MATRIX

For

**SPOTR**



A PROFILE GENERATION

WEB APPLICATION

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**Traceability Matrix**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **R\_ID** | **Requirement Description** | **Use Case ID** | **Test Case ID** | **Design Components** | **Progress State** | **Activity Name** | **Backend Code Component** | **Front End Code Component** |
| **1.** | User Login | Use Case 1,  Use Case 2 | 1.2, 2.2  4.1 - 4.6 | SD 3.3(Choice)  SE 3.2  DFD 3.1 | completed | Login/Invalid Password | BCC-1  BCC-2  BCC-3 | FCC-1  FCC-2 |
| **2.** | Search Username | Use Case 3 | 2.5 - 2.9 | SD 3.3(Home)  SE 3.2  DFD 3.1 | completed | Searching Username | BCC-4  BCC-5 | FCC-3 |
| **3.** | Social Media Profile | Use Case 4,5,6,7,8 | 1.5 - 1.9  2.5 - 2.9 | SD 3.3(Search)  SE 3.2  DFD 3.1 | completed | Displays profile based on search | BCC-5  BCC-6  BCC-7  BCC-8  BCC-9  BCC-10 | FCC-4  FCC-5  FCC-6  FCC-7  FCC-8 |
| **4.** | Show Profile | Use Case 10 | 2.5 - 2.9 | SD 3.3(Result)  SE 3.2  DFD 3.1 | completed | Visit the platform for viewing more details | - | FCC-4  FCC-5  FCC-6  FCC-7  FCC-8 |
| **5.** | Data Scraping | Use Case 12 | 3.1 - 3.5 | SD 3.3(Result)  SE 3.2  DFD 3.1 | completed | Extracting data | BCC-5 | FCC-3 |
| **6.** | Sentiment Analysis | Use Case 5,  Use Case 13 | 1.10  2.10 | SD 3.3(Result)  SE 3.2  DFD 3.1 | completed | Performs analysis based on tweets | BCC-5  BCC-11 | FCC-9 |
| **7.** | Data Storage | Use Case 12,  Use Case 14 | 3.1 - 3.5 | SD 3.3(Result)  SE 3.2  DFD 3.1 | completed | Storing the data extracted in database | BCC-5  BCC-12  BCC-13  BCC-14  BCC-15  BCC-16 | - |

Reference:

1. Test Case ID: Test Plan Document
2. DFD (Data Flow Diagram): SDS doc. section 3.1
3. SE (Sequence Diagram): SDS doc. Section 3.2
4. SD (State Diagram): SDS doc. Section 3.3
5. Use Case ID: SRS doc. Section 2.2
6. BCC: Backend Code Component (See table below)
7. FCC: Frontend Code Component (See table below)

|  |  |
| --- | --- |
| **Backend Code Component ID** | **CodeBase Reference** |
| BCC-1 | Views.py -> loginpage() |
| BCC-2 | Views.py -> logoutuser() |
| BCC-3 | Views.py -> register() |
| BCC-4 | Views.py -> homepage() |
| BCC-5 | Views.py -> check() |
| BCC-6 | Views.py -> github() |
| BCC-7 | Views.py -> codeforces() |
| BCC-8 | Views.py -> instagram() |
| BCC-9 | Views.py -> reddit() |
| BCC-10 | Views.py -> twitter() |
| BCC-11 | Views.py -> sentiment() |
| BCC-12 | Models.py -> github\_data() |
| BCC-13 | Models.py -> codeforces\_data() |
| BCC-14 | Models.py -> instagram\_data() |
| BCC-15 | Models.py -> rdddit\_data() |
| BCC-16 | Models.py -> twitter\_data() |

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| --- | --- |
| **Frontend Code Component ID** | **CodeBase Reference** |
| FCC-1 | templates/login.html |
| FCC-2 | templates/register.html |
| FCC-3 | templates/home.html |
| FCC-4 | templates/github.html |
| FCC-5 | templates/codeforces.html |
| FCC-6 | templates/instagram.html |
| FCC-7 | templates/reddit.html |
| FCC-8 | templates/twitter.html |
| FCC-9 | templates/sentiment.html |