



**Biometrics Development,  
Security, and Operations  
(BDSO)**

**UserStories.pdf**

**REQUEST FOR  
PROPOSAL**

United States  
Citizenship and  
Immigration Services  
(USCIS)

Biometrics  
Development,  
Security, and  
Operations (BDSO)

70SBUR19Q00000150

September 16, 2019

**SUBMITTED TO**

Tracey Harriot, Contract  
Specialist  
[Tracey.B.Harriot@uscis.dhs.gov](mailto:Tracey.B.Harriot@uscis.dhs.gov)

Charlotte Edwards, Contract  
Specialist  
[Charlotte.Edwards@uscis.dhs.gov](mailto:Charlotte.Edwards@uscis.dhs.gov)

**SUBMITTED BY**

Salient Federal – SGIS, Inc.  
8255 Greensboro Drive, Suite 400  
McLean, Virginia 22102-3828  
[www.SalientCRGT.com](http://www.SalientCRGT.com)

GSA Contract Number: GS-35F-  
0609S, DUNS Number: 84-  
9550983

Attn: Susanna Thornton  
Phone: (703) 891-8063  
Fax: (703) 891-8201  
[Susanna.Thornton@salientcrgt.com](mailto:Susanna.Thornton@salientcrgt.com)

*This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed -- in whole or in part -- for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this offeror as a result of -- or in connection with -- the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction.*

---

**Table of Contents**

---

UserStories.pdf (IV-9.b.1, IV-11.c.1.i, Att. 8.1-8.10, Att. 8.i.b.vi) .....	1
Introduction .....	1
User Story 1 and Acceptance Criteria (Att. 8.1) .....	1
User Story 2 and Acceptance Criteria (Att. 8.1) .....	1
User Story 3 and Acceptance Criteria (Att. 8.2) .....	1
User Story 4 and Acceptance Criteria (Att. 8.3) .....	2
User Story 5 and Acceptance Criteria (Att. 8.4) .....	2
User Story 6 and Acceptance Criteria (Att. 8.5) .....	2
User Story 7 and Acceptance Criteria (Att. 8.6) .....	3
User Story 8 and Acceptance Criteria (Att. 8.7) .....	3
User Story 9 and Acceptance Criteria (Att. 8.8) .....	3
User Story 10 and Acceptance Criteria (Att. 8.9) .....	3
User Story 11 and Acceptance Criteria (Att. 8.10) .....	4
Backlog .....	4
Future User Story 1 and Acceptance Criteria (Att. 8.3) .....	4
Future User Story 2 and Acceptance Criteria (Att. 8.1, 8.2, 8.3) .....	4
Future User Story 3 and Acceptance Criteria (Att. 8.1, 8.3) .....	5
Future User Story 4 and Acceptance Criteria (Att. 8.1, 8.3) .....	5
Future User Story 5 and Acceptance Criteria (Att. 8.1, 8.2, 8.3) .....	5

---

**UserStories.pdf (IV-9.b.1, IV-11.c.1.i, Att. 8.1-8.10, Att. 8.i.b.vi)**

---

**Introduction**

As described in Solution.PDF, Team SCRGT used our Agile Readiness Center (ARC) for practice sessions ahead of the BDSO Solicitation and Coding Challenge. Once we received the BDSO Coding Challenge Problem Statement, the team followed our established Agile and DevSecOps process and held an in-person session to analyze the Core User Stories and break them down into smaller user stories (presented below). We mapped the smaller user stories to one or more of the ten Core User Stories, and presented them in a logical order, determined by our team and based on our Agile process. (The mapping to core user stories is the second bullet in the story format below.)

**User Story 1 and Acceptance Criteria (Att. 8.1)**

As a product owner, I need to be able to go to an infinite scroll HTML web page to view and search for celebrities based on 10 years of historical data

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 1
- Acceptance Criteria:
  1. Ensure page is available when logged in as 'Business User' or 'Business Supervisor'.
  2. Ensure User Type is displayed on the page.
  3. Ensure by default full list of celebrities is displayed on the webpage.
  4. Ensure full list of celebrities is displayed via an infinite scroll.

**User Story 2 and Acceptance Criteria (Att. 8.1)**

As a Business User, I need to be able to see a recommended list of celebrities and their character names based over 10 years of historical data

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 1
- Acceptance Criteria:
  1. Ensure recommended list of celebrities is present for each selected celebrity
  2. Ensure the recommendations are based on facial features, genre plots, genre stats and genre similar bios.

**User Story 3 and Acceptance Criteria (Att. 8.2)**

As a Business User, I need the ability to do a fuzzy-style search for a celebrity profile using any combination of information

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 2
- Acceptance Criteria:
  1. Type in “Sam Jackson” or 6 Feet, American, Bald
  2. Confirm Sam Jackson is part of the celebrity results list
  3. Ensure clicking on a celebrity’s image shows detailed information on them

### User Story 4 and Acceptance Criteria (Att. 8.3)

As a Business User, I need the system to pull data from all current data sources and provide a single record view of celebrity that displays all the associated Biographical and Biometric data elements for that celebrity.

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 3
- Acceptance Criteria:
  1. Ensure once a celebrity's profile is clicked, celebrity Biographical Data is displayed in a single record
  2. Celebrity profile contains the following details:
    - Basic Stats
    - Biography
    - Visual representation of movies per year
    - Filmography
    - Social Media/ News Feed
    - Change Log History

### User Story 5 and Acceptance Criteria (Att. 8.4)

As a Business Supervisor, I need the ability to view and update celebrity data when needed

- Refer to Business Supervisor persona described in Solution.pdf
- References core user story 4
- Acceptance Criteria:
  1. Ensure this page is only available when logged in as 'Business Supervisor'.
  2. Ensure there is an additional button titled 'Edit'.
  3. Ensure the following sections are editable:
    - Basic Stats
    - Biography
    - Filmography
    - Films
    - Total domestic box office
  4. Ensure there is a change log table at the bottom.
  5. Ensure the change log table captures: Field name, change date, who made the change and change look up.
  6. Ensure when we click on the look up it opens a box that shows the original and the change text

### User Story 6 and Acceptance Criteria (Att. 8.5)

As a DevSecOps engineer, I need to create an AWS environment that will consolidate data from multiple data sources and allow for data preparation.

- Refer to DevSecOps engineer persona described in Solution.pdf
- References core user story 5
- Acceptance Criteria:
  1. Ensure that DevSecOps engineer can create and access EMR-JupyterHub environment
  2. Ensure that DevSecOps engineer can launch Jupyter Notebook from JupyterHub.

3. Ensure that DevSecOps engineer can create playbooks using Jupyter Notebook and download and store data on S3 Bucket as storage.

#### **User Story 7 and Acceptance Criteria (Att. 8.6)**

As a DevSecOps engineer, I need to be able to implement AI/ML to ensure celebrity records that may differ in spelling or by context are recognized as being the same celebrity and are used to create the single celebrity record view

- Refer to DevSecOps engineer persona described in Solution.pdf
- References core user story 6
- Acceptance Criteria:
  1. Ensure AI/ML is used to recognize minor spelling differences in celebrity biographical data and ensure a single celebrity record is created.
  2. Implement matching logic to create single celebrity record in data ingestion, storage, display and search across spellings and context

#### **User Story 8 and Acceptance Criteria (Att. 8.7)**

As a DevSecOps engineer, I need to maintain referential integrity when creating the single celebrity record view from each of the source database

- Refer to DevSecOps engineer persona described in Solution.pdf
- References core user story 7
- Acceptance Criteria:
  1. Ensure each data source is uniquely identified and data is referenced clearly by its data source.

#### **User Story 9 and Acceptance Criteria (Att. 8.8)**

As a DevSecOps engineer, I need the ability to implement, demonstrate and output results of automated security scans and code testing as part of my pipeline.

- Refer to DevSecOps engineer persona described in Solution.pdf
- References core user story 8
- Acceptance Criteria:
  1. Ensure OWASP security scanning in pipeline
  2. Ensure output can be viewed for each pipeline run
  3. Ensure output can be screenshotted or otherwise saved as PDF

#### **User Story 10 and Acceptance Criteria (Att. 8.9)**

As a DevSecOps engineer, I need to be able to stand up entire infrastructure using a single 100% automated scripts with a minimum number of commands.

- Refer to DevSecOps engineer persona described in Solution.pdf
- References core user story 9
- Acceptance Criteria:
  1. Ensure that with at most five inputs or commands, the script can create the entire infrastructure given only the following information:
    - Git repository
    - AWS account
    - Publicly available resources on the Internet

2. Ensure that with at most five inputs or commands, the script can destroy the entire infrastructure given only the following:
  - Git repository
  - AWS account
  - Publicly available resources on the Internet

### **User Story 11 and Acceptance Criteria (Att. 8.10)**

As a Data Scientist, I need to be able to view a raw data webpage, so that I can view infographics containing information about the full set of raw data.

- Refer to Data Scientist persona described in Solution.pdf
- References core user story 10
- Acceptance Criteria:
  1. Ensure page is only accessible by Data Scientist.
  2. Ensure the page is titled 'Raw Data Infographics'.
  3. Ensure an infographic contains:
    - Films made with top 100 celebrities
    - Films made with multiple top 100 celebrities
    - Domestic box office of films featuring top 100 celebrities
  4. Ensure a pie chart infographic contains the following
    - Title: 'Top 100 celebrities appearing in films breakdown by year'
    - Legend showing color of each year

## **Backlog**

### **Future User Story 1 and Acceptance Criteria (Att. 8.3)**

As a Product Owner, I need to view another data source with additional information about a celebrity, so that I can compare data from multiple sources to improve accuracy.

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 3
- Acceptance Criteria:
  1. Ensure we can add another data source to our data base

### **Future User Story 2 and Acceptance Criteria (Att. 8.1, 8.2, 8.3)**

As a Business User, I need to be able to search for a celebrity using movie video content analysis to include spatio-temporal analytics based on time in role, with other celebrities, performing activities or presence in settings.

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 1, 2, 3
- Acceptance Criteria:
  1. Ensure we can search for a celebrity using video content analysis

**Future User Story 3 and Acceptance Criteria (Att. 8.1, 8.3)**

As a Business User, I need an enhanced celebrity profile page so that each movie the celebrity has acted in provides a link to the commercial online streaming services that showcase the movie as part of their basic service packages.

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 1 and 3
- Acceptance Criteria:
  1. Ensure page opens when a celebrity is selected
  2. Ensure each movie provides a link to an online streaming service that showcase the movie with no charge

**Future User Story 4 and Acceptance Criteria (Att. 8.1, 8.3)**

As a Business User, I need the ability to get a recommendation for the best actors within a specified role and movie genre, using social media recommendations (e.g., Rotten Tomatoes).

- Refer to Business User or Business Supervisor persona described in Solution.pdf
- References core user story 1 and 3
- Acceptance Criteria:
  1. Ensure the landing page has a classification category that uses social media recommendations

**Future User Story 5 and Acceptance Criteria (Att. 8.1, 8.2, 8.3)**

As a Business User, I need to be able to get a recommendation for the actors most likely to receive an Oscar award this year, based on social media and historical performance in specified roles and movie genres.

- Refer to Business User or Business Supervisor personas described in Solution.pdf
- References core user story 1, 2, and 3
- Acceptance Criteria:
  1. Ensure recommendations engine considers social media
  2. Ensure recommendations considers historical performance in specified movies roles and genres