**Use Case UC-012**

Version 1.0

**Revision History**

| Date | Author | Description of change |
| --- | --- | --- |
| 01/23/2024 | Jake, Dominic, Vanessa | Initial version of use case |
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**Use Case:** Data analyst wants to export data from the database using the ATS user interface.

**Id**: UC - 012

**Description**

Data Analyst needs to import data from the database using the web application user interface for future use in personal analysis.

**Level:** User goal

**Primary Actor**  
Data Analyst

**Supporting Actors**

ATS Web Application

Data Administrator

**Stakeholders and Interests**

Data Analyst - interested in viewing and downloading queried data.

Network Administrator - Maintains web facing user interface.

Database Administrator - Interested in ensuring the integrity of the database.

**Pre-Conditions**

1. API service is available
2. User has access to the internet
3. Valid user credentials
4. ATS web application is available

**Post Conditions**

1. Data is exported successfully and data integrity is maintained.
2. System logs export interaction.

Success end condition

1. Data analyst receives exported data in desired format.

Failure end condition:

1. No output from the queries - the data doesn’t exist in the database
2. The queries have syntax mistakes and return errors

Minimal Guarantee

1. Data from the database is viewable by the user.
2. A message of successful completion is displayed to the user.

**Trigger**

1. Data Analyst wishes to export data for ML model training.

**Main Success Scenario**

1. Data analyst logs into the ATS web application and navigates to the “Export Data” page.
2. Data analyst selects desired data filters and data format
3. Data analyst clicks the “export data” button.
4. The ATS web application connects to the MySQL database and runs the appropriate query.
5. The ATS web application prepares the data in the desired format and downloads it to the user's machine.

**Extensions**

1a. Incorrect credentials

1. Login rejected
2. “Incorrect credentials” error appears

1b. The web application is down and not accessible by the user.

1. The data analyst restarts the application.
2. Application rebuilds to prior state.

2a. System is still unavailable

2b. Data analyst is able to access the application and log in successfully.

4a. The MySQL database goes down leading to service disruption. The initially retrieved query results were incorrect.

1. System restoration will take place
2. The data analyst re-runs the query
   1. System is still unavailable
      1. Data analyst downloads data manually via phpMyAdmin. (See UC-001 for details)
   2. Query runs successfully

5a. Download of requested data fails

1. Application displays an error message describing the failure.
2. Data analyst attempts to download the data again.
   1. Data is successfully downloaded
   2. Download fails again
      1. Data analyst downloads data manually via phpMyAdmin. (See UC-001 for details)

**Frequency:**

The frequency of this use case is not on a timely basis, this occurs when the user has a need for exporting the data from the database.

**Assumptions**

1. The user has a basic knowledge of navigating/logging into basic web applications
2. The user has adequate storage capacity to export the data requested.

**Special Requirements**

**Security**

1. Access UI through the web portal with valid credentials.

**Change Logs**

1. The system automatically logs the transaction for future review if necessary.

**Issues**

1. How long will it take for the data requested to be queried since the initial request.
2. Two users may attempt to export from the data at the same time causing lag or other issues.