**Use Case Name:** “Download Diagram”

**Brief Description:**

Project member (user) uses the social network tool (ClubUML) to download/obtain a previously uploaded UML diagram.

**Actors:**

User, Database Server (where the diagram(s) is/are stored)

**Preconditions:**

User has become a member of the project.

Server has existing/uploaded diagram and active network connection.

User has logged in to ClubUML.

**Basic Flow of Events:**

1. The use case begins when the user selects “Download Diagram”.
2. ClubUML displays a prompt to select or enter which diagram version to download.
3. The user selects/enters a diagram version.
4. ClubUML sends the diagram version request to the Server.
5. The Server sends the requested diagram to ClubUML.
6. ClubUML prompts the user for download location.
7. User enters the location directory.
8. Diagram is saved to the specified location.
9. Project page is redisplayed.
10. The use case ends successfully.

**Alternative Flows:**

1. No Upload Diagram

If in step 1 of the basic flow Download Diagram is invoked, then

* 1. ClubUML shall display the message “No Existing Diagram”.
  2. The use case resumes at step 8.
  3. The use case ends with a failure condition.

1. No Response from Server

If in step 4 of the basic flow there is no response from the Server within 5 seconds, then

* 1. The user is allowed to re-try by repeating steps 1 to 3, up to three times.
  2. If there is no response from the Server, ClubUML shall display the message “Server connection unavailable – try again later”.
  3. The use case ends with a failure condition.

1. Invalid Version Request

If in step 3 of the basic flow an invalid version is entered (in the case if the user is given the option to type in the version instead of selected from the existing list), then

* 1. ClubUML shall display the message “Invalid Version Request – Existing valid version are X-Y”.
  2. The use case resumes at step 8.
  3. The use case ends with a failure condition.

**Post-Conditions:**

1. Successful Completion
   1. Diagram downloaded and internal logs updated if any.
2. Failure Condition
   1. Logs updated if any.

**Special Requirements:**

1. ClubUML shall keep a log; including date and time, of all complete and incomplete download diagram activities.