

DESIGN AND ARCHITECTURE DOCUMENT

1. PROJECT INFORMATION

Project Name: Abstractive Conversation Summarizer with Open-Source AI Tools

Date of Submission: 4/3/2023

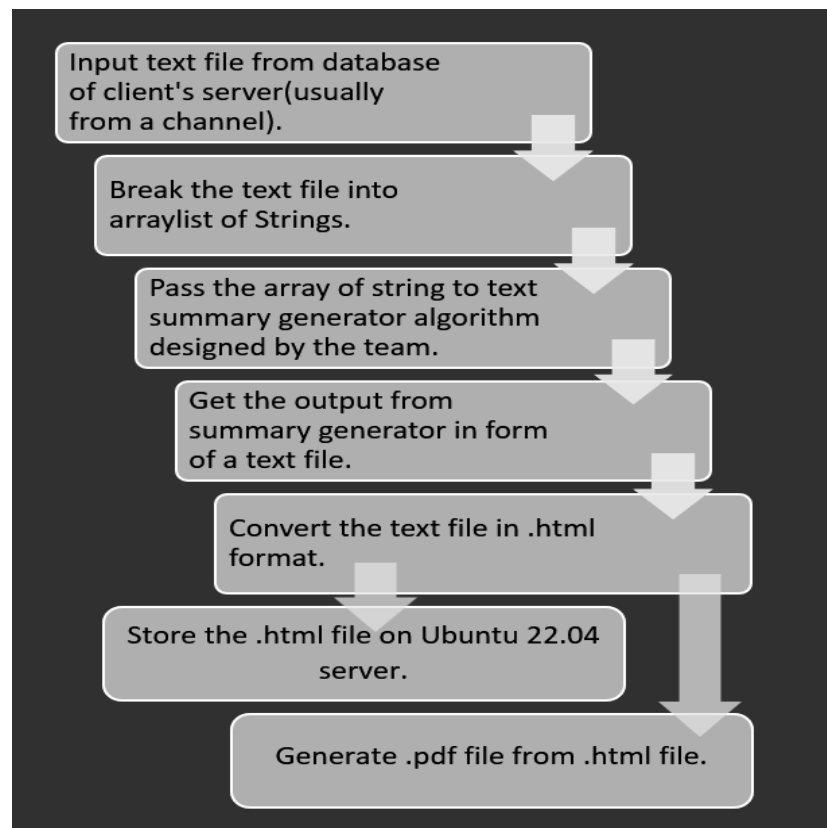
Version: 1.0

Client: Impact Intell

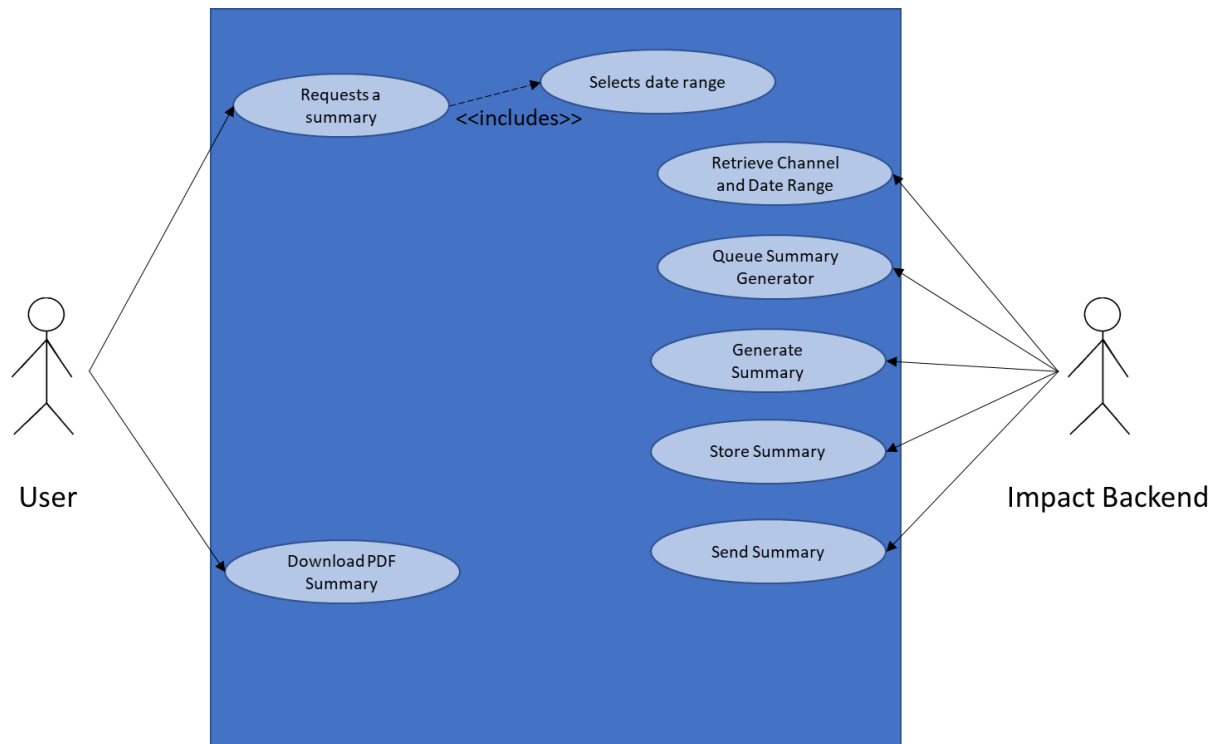
2. PROJECT TEAM

Team Member	Role	Document Responsibilities
Akshat Baranwal	Product Owner	Sequence Diagram
Steven Warner	Scrum Master	Sequence Diagram
Mark O'Connor	Developer	Class Diagram
Cameron Caruso	Developer	Use Case Diagram
Parth Dalwadi	Developer	Waterfall Model
Michael Provenzano	Developer	Class Diagram

3. WATERFALL OR VISUAL MODEL

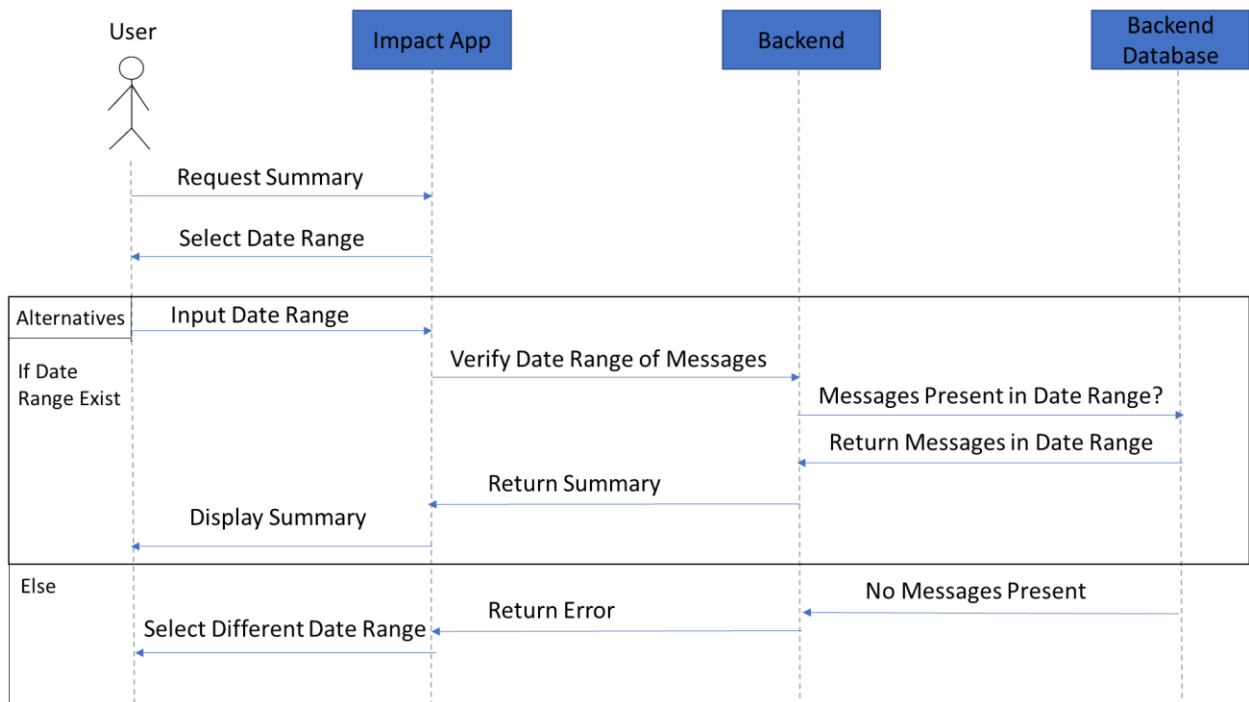


4. USE CASE DIAGRAM VIEW



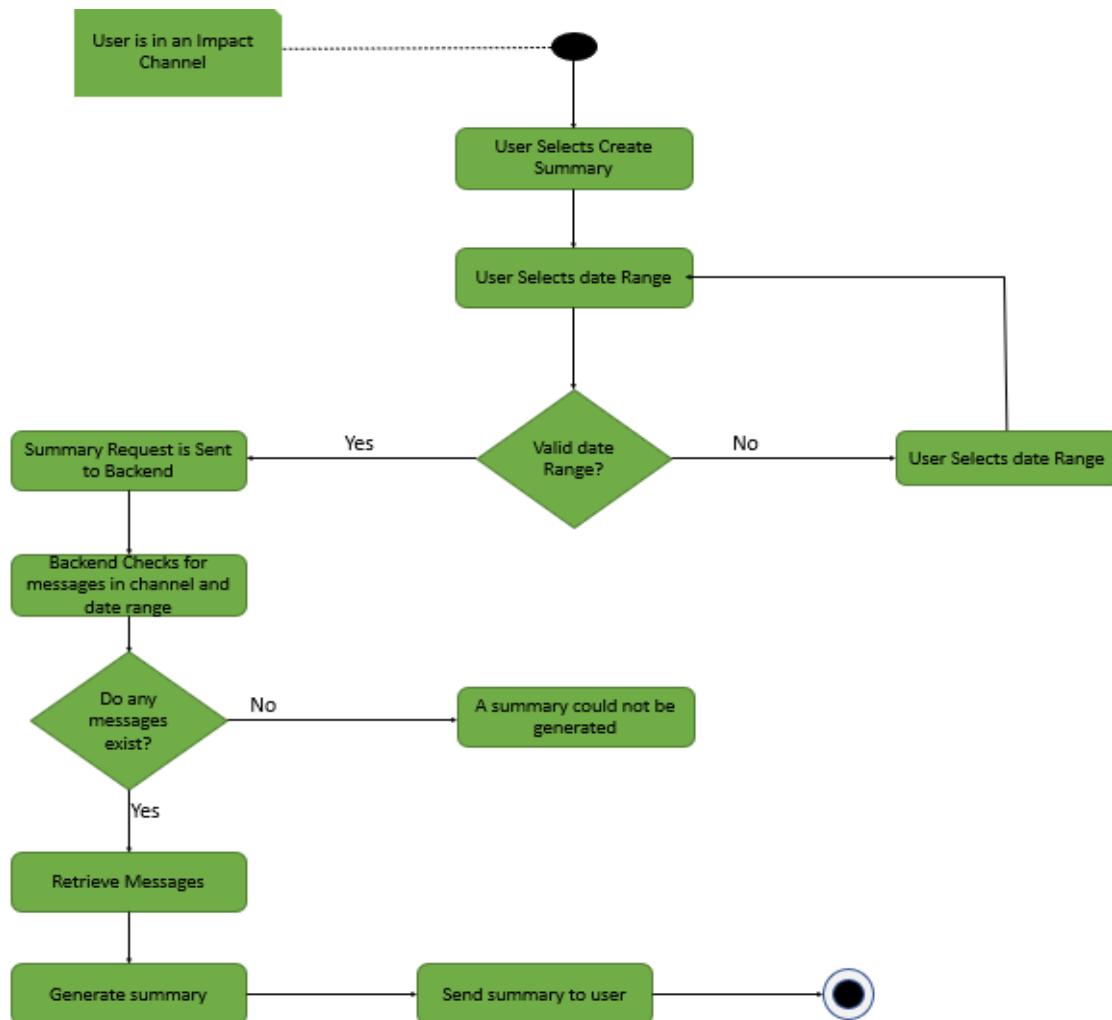
- The user starts the scenario by requesting a summary from the Impact app.
- When they request a summary, it is required that the user also selects a date range.
- From there the Impact backend will retrieve the selected channel and date range. It will queue the summary generator function.
- The summary generator function will run and the result will be stored in the server.
- The backend server will send the summary to the user.
- The user will then select to download the summary as a PDF.

5. BEHAVIORAL VIEW: SEQUENCE DIAGRAMS



- The sequence begins with the user selecting to request a summary from the Impact app.
- The Impact app will respond by prompting the user to select a date range.
- The user will enter a date range.
- The date range is passed to the backend and the backend will verify that the date range is valid.
- The backend will query the database to determine if any messages are present in that channel and date range.
- If messages do exist the backend will retrieve them and generate a summary.
- The summary is sent to the Impact App, then is displayed to the user.
- If no messages are present in the database the backend will tell the Impact app that a summary could not be generated.
- The Impact App will ask the user to select a different date range.

6. DESIGN AND STRUCTURAL VIEW: CLASS DIAGRAM OR ACTIVITY DIAGRAM



- When a user is in an Impact text channel, they can select to create a summary.
- Next, they need to select a date range.
- The date range will need to be verified. If it is not a valid date range the user will need to select a new range.
- If the date range is valid the server will receive the request to create a summary.
- The server will need to check if any messages are in the channel within the given date range. If there are no messages a summary cannot be created.
- If there are messages the server will retrieve them and then create the summary.
- Finally, the summary is sent to the user.