**Release Summary**

**Product Name:** SummarAIze

**Revision Number:** V1.1

**Key user stories and acceptance criteria**: Give a list of key user stories with their acceptance criteria that can serve as a guide for an acceptance test.

| User Stories | Acceptance Criteria |
| --- | --- |
| **As a student, I need to upload a research paper PDF through an accessible website and get an accurate summary of the paper so I can understand the main points without reading the entire paper.** | * Able to upload PDFs * View a summary of research paper * Able to find main points about the paper |
| **As a user, I want to indicate that I have no background knowledge on the research topic and receive a detailed literature review so that I can learn more about the subject.** | * Able to tell if I’m a beginner or an expert * Summary changes depending on knowledge |
| **As an educator, I want to be able to create a visual representation so that I can make presentations so that complex concepts are simplified for students.** | * Able to view visual components * Playable video |
| **As a student, I need to be able to play the narrated voiceover so that I can simultaneously absorb information while completing other tasks at hand.** | * Able to listen to/play the voiceover and follow along * Able to accurately follow the content of the paper |
| **As a student, I should have a user account that stores my information so that I can track my progress.** | * Create an account with my email * Can log into that account smoothly * The account saves a library of summaries |
| **As a student, I need to download videos I previously generated so that I can reference them later.** | * Able to save the videos to the local device * Able to securely download |
| **As a student, I want to choose the summary length (short, medium, detailed) so that I get the right level of depth for my needs.** | * Can specify the length of the summary (with background knowledge) * Can change the summary length if needed (e.g. using chatbot) |
| **As a researcher, I want to see citations from the original paper in the summary so that I can refer back to the sources accurately.** | * Summary shows citations in the text * All citations are listed below |
| **As a user, I want to get suggestions for related research papers so that I can explore the topic further.** | * Able to populate a list of related relevant papers on the user’s display |
| **As a user, I want to generate a presentation for the contents of the research paper so that I can use it to communicate the information to others effectively.** | * Can see a presentation * Presentation accurately explains research paper * Can download presentation |
| **As a user, I want to ask questions about the paper so that I can clear up any confusion and refine the summary.** | * Chatbot that the user can ask * Can ask questions about any confusions |

**Known Problems**: List the major bugs (you can reference your Test Report), omissions (missing functionality, edge cases that are not handled), design shortcuts (e.g. hard coded data), etc.

* Docker functionality has potential issues and isn’t very consistent for everyone
* Generated audio doesn’t read latex correctly
* Video generation is low quality
* Lose data after refreshing page (need to reupload pdf)
* Images need to be embedded in text to be extracted
* Not all images are extracted
* Does not get related papers by default (need to ask chatbot)
* Some references are buggy
* Github issues with merging due to different environments

**Known Testing Bugs:**

* Capable of summarizing other kinds of documents like lecture slides or anything that has information on it, which expands the span of research paper compilation
* When going from videos back to home, the generated video doesn’t stay cached on the home page
* Not able to see the videos page if a video is generating, this means that you have to wait for the entire video to finish generating in order to view any other pages

**Product Backlog**: Provide a list the high priority user stories and bug fixes that can serve as a guide for a follow-on project.

* User Story 10: As a user, I want to generate a presentation for the contents of the research paper so that I can use it to communicate the information to others effectively.
  + Presentation generation functionality
* User Story: As an educator, I want to be able to create a visual representation so that I can make presentations so that complex concepts are simplified for students.
  + Improve video generation quality