**Assignment 5:**

Documenting Stakeholder Requirements

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# Project Scope

The solution we are developing for our client is a thorough improvement to the YouTube app that focuses on three main aspects to improve the user experience significantly. The first feature will allow the app to remember a user's progress in a movie, delivering subtitles and summaries of prior portions while moving to other applications or answering phone calls. Furthermore, the most recent incomplete video will be presented on the initial screen for fast access to current videos, assuring viewers like Raghul can quickly resume viewing from where they left off without manual searching.

The second feature would allow users to listen to audio from YouTube videos while using other programs in the background, allowing for effective multitasking, such as listening to podcasts or music while reading emails or other productivity tools. The music playback will continue even if the phone is locked or another app is started, and playback controls will be accessible from the notification panel and lock screen.

The third feature is a mini-screen mode for the YouTube app, which allows users to condense the video into a small, moveable viewing screen that runs in one corner of their smartphone's display. This mini-screen mode will feature configurable size, location, and transparency, allowing users to continue viewing videos while navigating between programs or doing other tasks.

This project aims to provide a smooth and enhanced watching experience while responding to the different demands of users and improving overall user satisfaction with the YouTube app.

# User Stories

## Video Progress Memory and Easy Access [VPM]

The purpose of this feature is to enhance the YouTube app by allowing users to seamlessly resume where they left off in a video after switching to other applications or answering phone calls. The most recent incomplete video is also shown on the initial screen for quick access to continue watching.

|  |  |  |
| --- | --- | --- |
| ID | User Class | User Story |
| VPM-01 | Multitasker | I want to effortlessly resume watching videos from where I left off so that I can quickly continue my viewing without searching for my spot and stay engaged with the content. |
| VPM-02 | Multitasker | I want the most recent unfinished video to be displayed on the app's opening screen so that I can easily access and continue watching the content I was last engaged with. |
| VPM-03 | Multitasker | I want the option to turn on or off the video progress memory feature so that I can control whether the app remembers my progress in videos or not. |
| VPM-04 | Multitasker | I want the option for incomplete videos to continue from where I left off or start from the beginning so that I can play according to my situation and video content. |
| VPM-05 | Multitasker | I want a seamless transition when resuming a video after switching back to the app so that I can have a smooth and uninterrupted watching experience. |

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## Background Audio Playback [BAP]

The purpose of this feature is to allow users to multitask more effectively by enabling them to listen to audio from YouTube videos while using other programs in the background.

|  |  |  |
| --- | --- | --- |
| ID | User Class | User Story |
| BAP-01 | Multitasker | I want to listen to YouTube video audio in the background while using other applications or browsing the web so that I may multitask well while also enjoying material such as podcasts and music. |
| BAP-02 | Multitasker | I want audio playback to continue even if I lock my phone or move to another app so that I may listen to music without interruption. |
| BAP-03 | Multitasker | I want to have playback controls on the notification panel and lock screen so that I can play, stop, and skip music without launching the app. |
| BAP-04 | Multitasker | I want an option to control the audio playback speed while listening to YouTube videos in the background so that I can adjust the pace to my preference. |
| BAP-05 | Multitasker | I want the app to remember the last video I watched and its location for background audio playback so that I can quickly resume listening from where I left off when I return to the app. |

## Mini-Screen Mode [MSM]

The purpose of this feature is to let users continue watching videos while navigating between different apps or performing other tasks on their smartphones by displaying videos on a small, resizable screen that floats above other apps.

|  |  |  |
| --- | --- | --- |
| ID | User Class | User Story |
| MSM-01 | Multitasker | I want to watch videos in a small, movable window while using other apps or performing tasks so that I can continue watching content without interrupting my workflow. |
| MSM-02 | Multitasker | I want an adjustable size and position for the small movable screen so that I can position it anywhere on the screen for convenient viewing and better multitasking. |
| MSM-03 | Multitasker | I want a transparency setting for the small movable screen so that I can make it less intrusive while still being able to view the content and maintain focus on other tasks. |
| MSM-04 | Multitasker | I want quick access controls within the small movable screen so that I can play, pause, and skip videos without expanding the window. |
| MSM-05 | Multitasker | I want the small movable screen to support both portrait and landscape orientations so that I have flexibility in viewing videos based on my preference and app requirements. |

# Swimlane Diagram

This swimlane diagram illustrates the process of utilizing the YouTube app's Mini-Screen Mode function, which involves two key actors: the User- the “Multitasker”(Gamers, Professionals, Students, etc..), and the "YouTube App." The swimlanes depict each actor's activities during the procedure. The Mini-Screen Mode function allows the User to multitask more effectively. They can view a video, go into Mini-Screen Mode, resize the video window, and continue working on other things while the video is playing. When finished, the User can exit Mini-Screen Mode and effortlessly return to full-screen viewing. The decision point occurs when the User chooses whether or not to continue Mini-Screen Mode after multitasking. If the user wants to continue, the feature stays; otherwise, it's closed.

