

Mood Based Music Player

A MINI PROJECT REPORT

Submitted by

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of

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IN

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An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

RAJALAKSHMI ENGINEERING COLLEGE

AUTONOMOUS, CHENNAI

NOV/DEC, 2024

BONAFIDE CERTIFICATE

Certified that this mini project “**Mood Based Music Player**” is the bonafide work of “**J JESSIELYN JENISHA (220701901)**” for **Introduction to Robotic Process Automation (OAI1903)** who carried out the project work under my supervision.

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Submitted for the Practical Examination held on _____.

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J Jessielyn Jenisha (2116220701901)

ABSTRACT

The Mood-Based Music Player is an intelligent and interactive application designed to enhance user experiences through personalized music recommendations. Built using UiPath, this innovative project integrates automation with emotional well-being by curating playlists tailored to the user's current mood. The system achieves this by either prompting users to self-report their mood from text inputs.

Once the user's mood is determined—categories such as happy, sad, stressed, relaxed, or energetic—the application selects a playlist that either complements or balances their emotional state. For instance, calming music is played to soothe stress, upbeat tracks are chosen to uplift a low mood, and motivational music is offered to enhance focus or productivity.

The application leverages mood-tagged music data, organized in a structured format, and uses UiPath's automation capabilities to dynamically fetch, filter, and play the most relevant content. Additionally, the system provides a feedback mechanism where users can indicate whether the music recommendation helped, enabling continuous improvement in playlist curation.

This project showcases the potential of Robotic Process Automation (RPA) to extend beyond traditional applications and contribute to lifestyle enhancement. By delivering mood-aligned music in an intuitive and seamless manner, the Mood-Based Music Player demonstrates a compelling use case for combining automation, personalization, and emotional intelligence to enrich daily life.

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CHAPTER 1

INTRODUCTION

1.1. INTRODUCTION

The Mood-Based Music Player is an intelligent and interactive application designed to enhance user experiences by curating personalized music playlists based on their emotional state. Developed using UiPath, this system identifies moods either through self-reported inputs or automated detection methods, such as sentiment analysis or facial expression recognition. It then selects and plays playlists tailored to either balance or enhance the user's current mood.

For instance, soothing tracks are recommended to alleviate stress, while upbeat songs uplift a low mood or increase energy levels. This project creatively utilizes automation to bridge the gap between technology and emotional well-being, offering an engaging, intuitive, and user-friendly approach to personalized music recommendations.

1.2. SCOPE OF WORK

The Mood-Based Music Player focuses on leveraging user-reported emotional inputs to deliver personalized music recommendations. In its current implementation, the system prompts users to input their mood through simple text descriptions (e.g., "happy," "stressed," "relaxed"). Based on this input, the application maps the described emotion to a predefined mood category and selects a corresponding playlist from a database of mood-tagged music.

This version emphasizes simplicity and accessibility, allowing users to quickly communicate their emotional state without requiring advanced detection mechanisms. The system's primary scope includes:

1. **Mood Categorization:** Analyzing user text inputs to classify moods into categories such as happy, sad, stressed, or energetic.
2. **Playlist Curation:** Fetching and playing music playlists that align with the identified mood, stored in a structured format like an Excel sheet or database.
3. **User Engagement:** Providing an easy-to-use interface for mood input and music playback, ensuring an intuitive experience for all users.
4. **Scalability:** Offering a foundation for future enhancements, such as automated mood detection via APIs or real-time emotion analysis.

1.3 AIM AND OBJECTIVES

The aim of the Mood-Based Music Player project is to develop a user-friendly application that enhances emotional well-being by providing personalized music playlists based on user-reported moods, leveraging UiPath's automation capabilities for efficient and seamless music curation.

Objectives:

1. **Mood Identification:** Enable users to self-report their current mood through simple text inputs, categorizing emotions into predefined categories such as happy, sad, stressed, and relaxed.
2. **Playlist Recommendation:** Create a database of mood-tagged music and design an automated system to fetch and play appropriate playlists based on the user's mood.
3. **Automation Workflow:** Utilize UiPath workflows to streamline the process of mood input handling, playlist selection, and music playback for a seamless user experience.
4. **User Interaction:** Develop an intuitive and engaging interface for users to input moods and interact with the application easily.

CHAPTER 2

SYSTEM SPECIFICATIONS

2.1. HARDWARE SPECIFICATIONS

Processor: Intel Core i5 or higher

RAM: 8 GB or higher

Storage: 256 GB SSD or higher

2.2. SOFTWARE SPECIFICATIONS

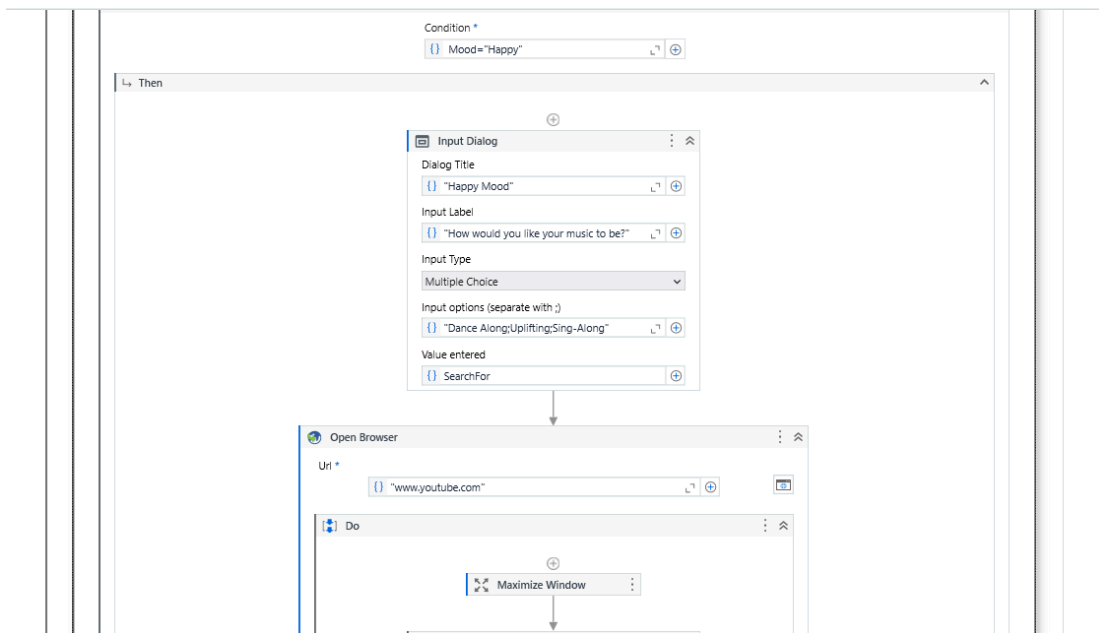
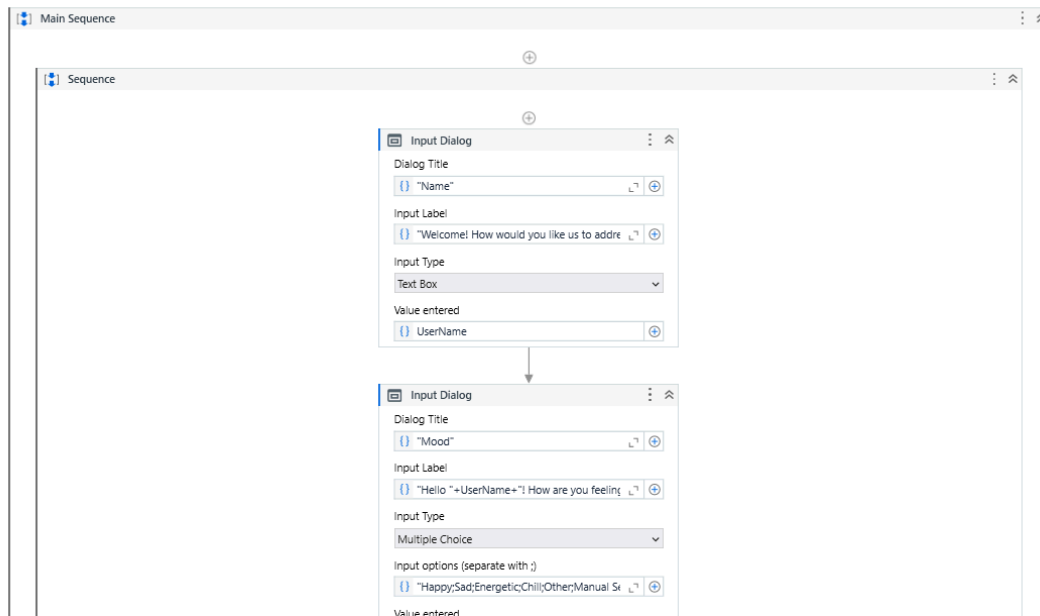
Operating System: Windows 10 / macOS / Linux

Development Platform: UiPath Studio

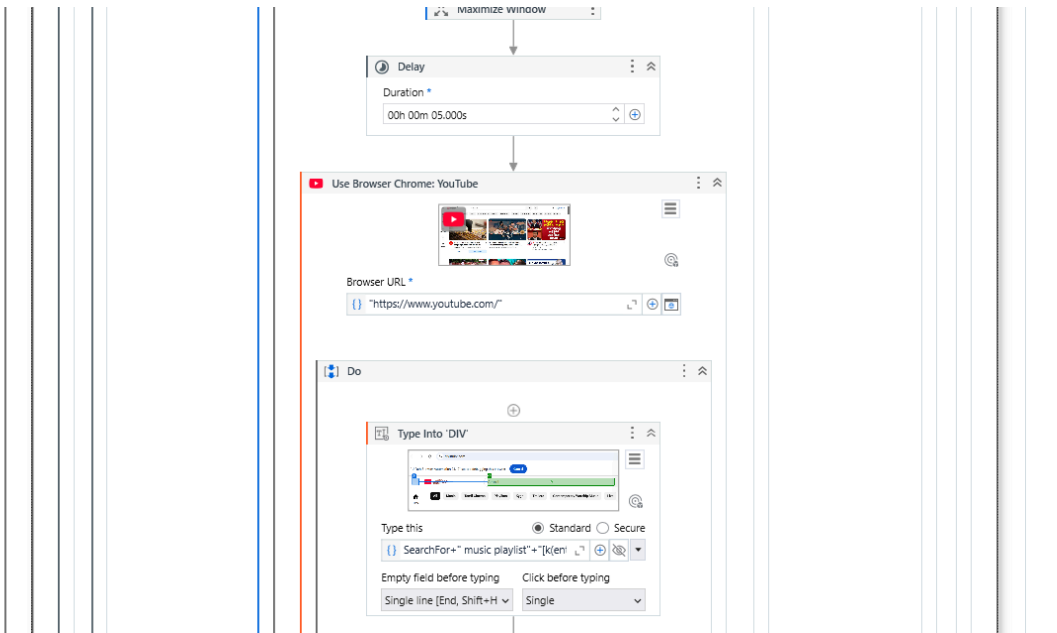
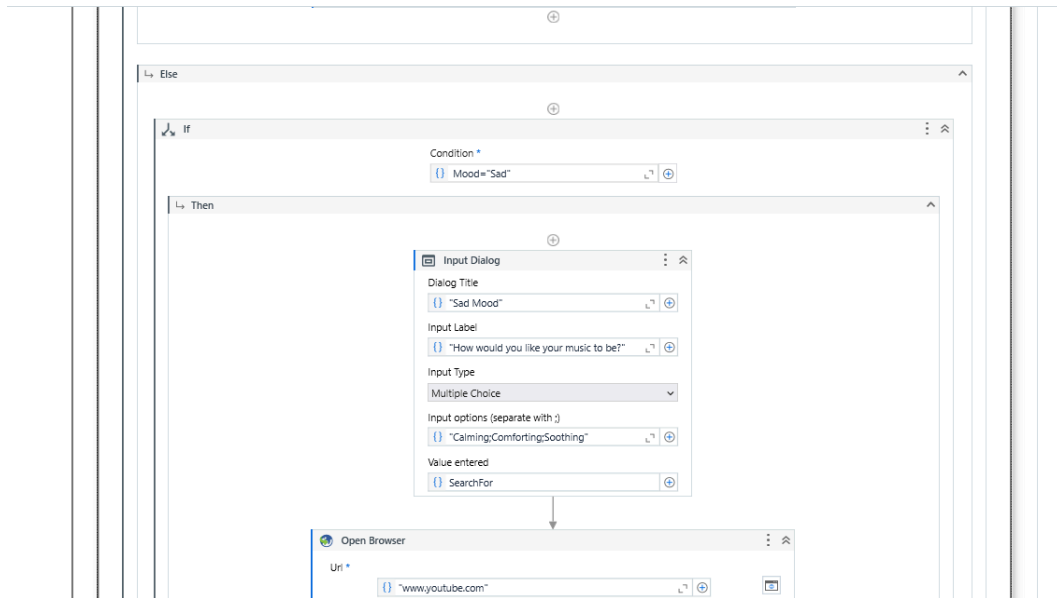
Scripting: VB.NET/ C#

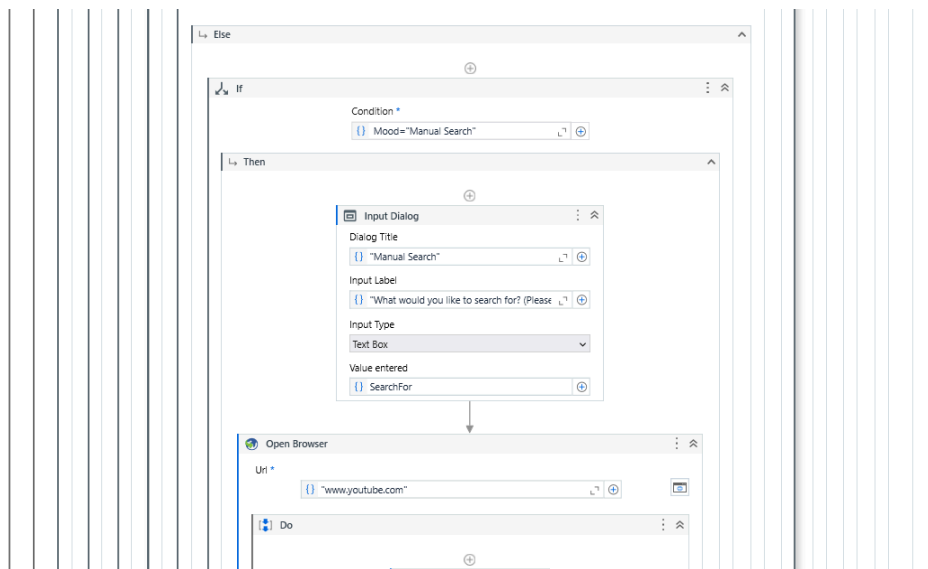
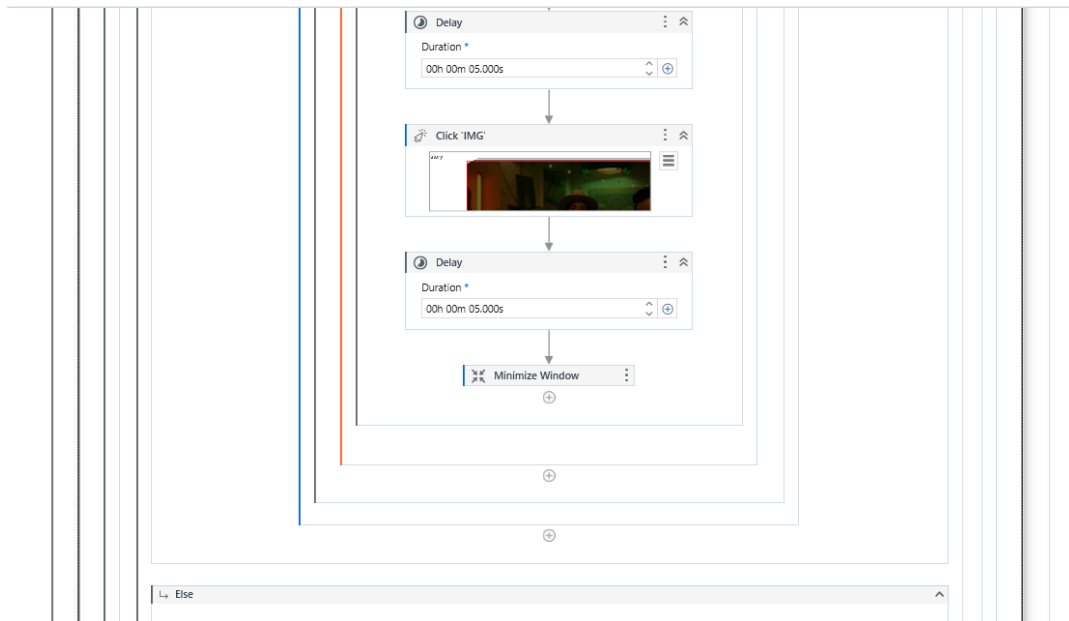
CHAPTER 3

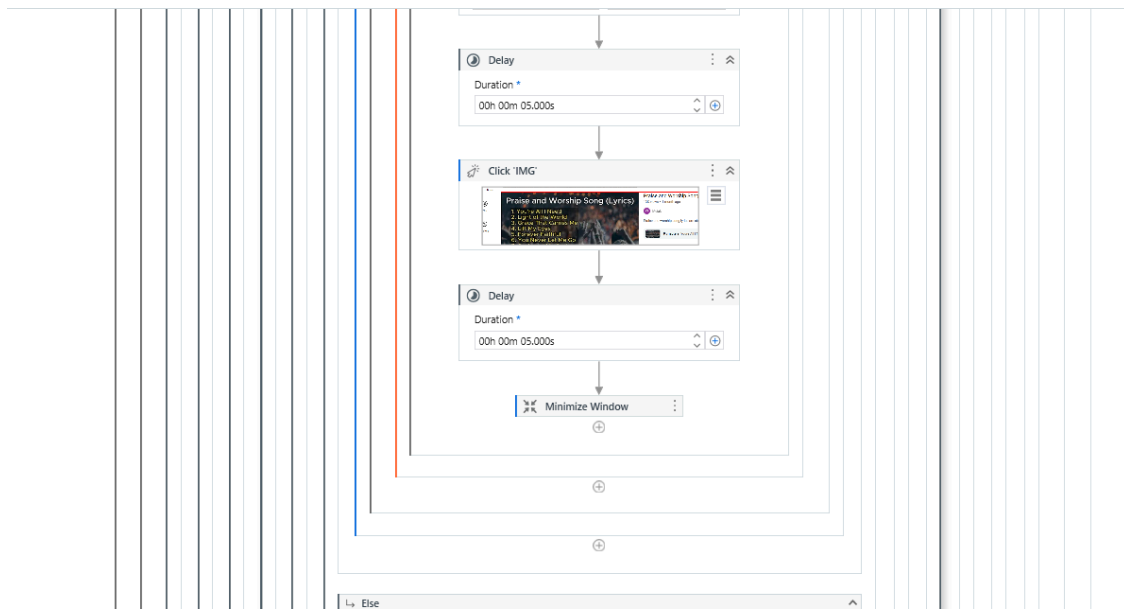
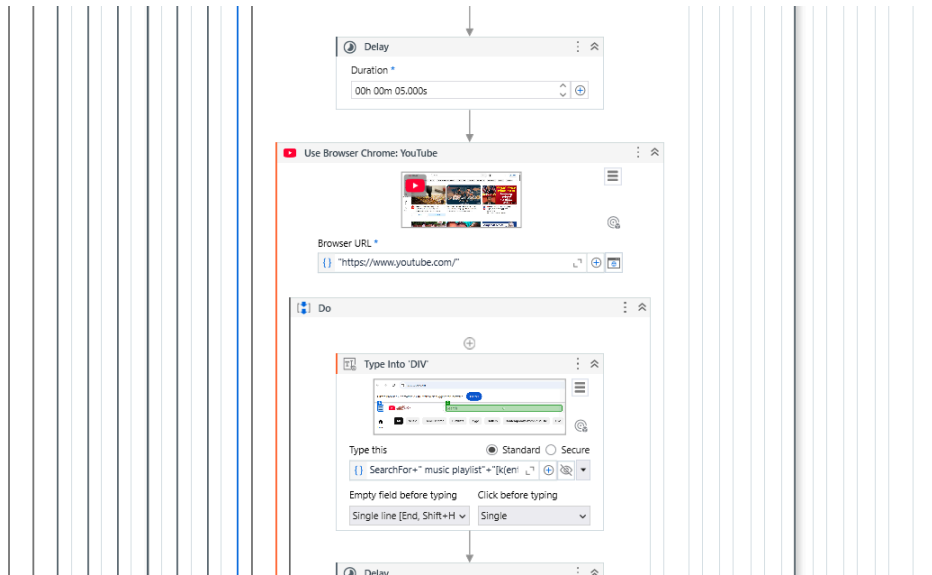
SAMPLE WORKFLOW





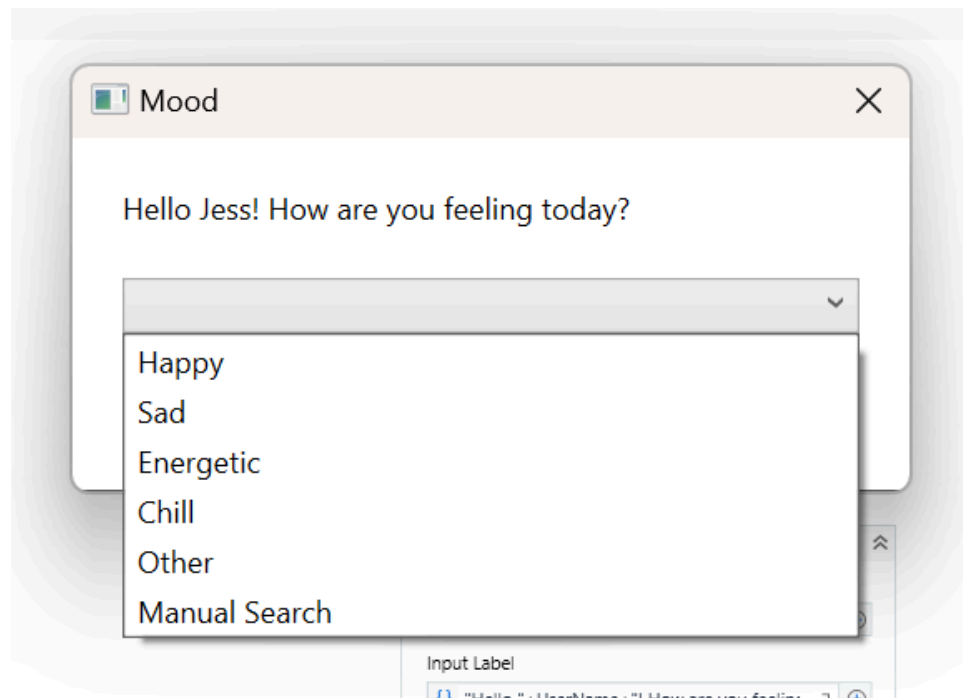
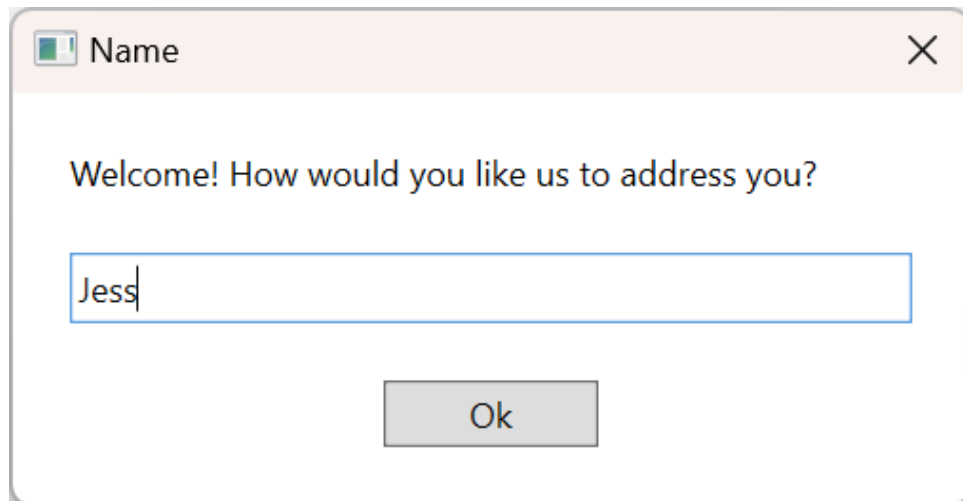







CHAPTER 4

SCREENSHOTS



 Mood


✕

Hello Jess! How are you feeling today?

Happy

▼

Ok

 Happy Mood

✕

How would you like your music to be?

☐ Dance Along

☒ Uplifting

☐ Sing-Along

Ok

Uplifting music playlist - YouTube

youtube.com/results?search_query=Uplifting+music+playlist

UiPath Browser Automation 23.10" started debugging this browser

Cancel

Uplifting music playlist

✕

Q

🎤

⋮

Sign in

All

Shorts

Videos

Unwatched

Watched

Recently uploaded

Live

Playlists

Filters

Home

Shorts

Subscriptions

You

History

Sell on amazon

Build your E-commerce Brand with amazon.in

Start selling online in mins

SIGN UP >

amazon.in

SELL

Selling Fee Reduction on Amazon.in

Sell on India's most visited shopping destination with reduced selling fee.

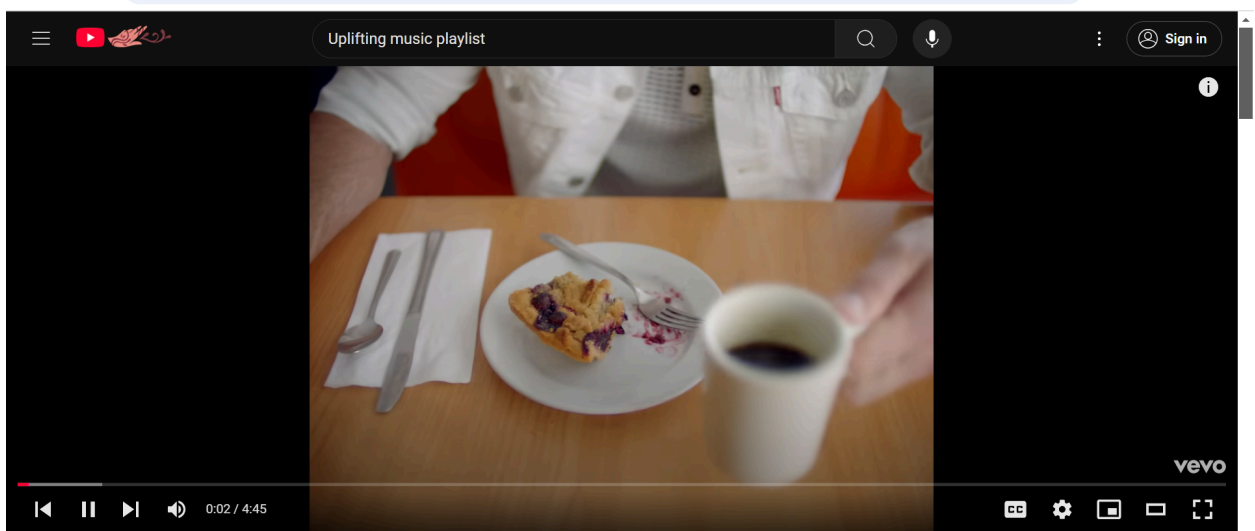
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Mix - Uplifting music playlist

Avicii, Bruno Mars, Calvin Harris, and more

Justin Timberlake - CANT STOP THE FEELING! (from DreamWorks Animation's "TROLLS") (Official Video) · 4:46

American Authors - Best Day Of My Life · 3:41



Justin Timberlake - CAN'T STOP THE FEELING! (from DreamWorks Animation's "TROLLS") (Official Video)

YouTube Mix

CHAPTER 5

CONCLUSION

The Mood-Based Music Player successfully demonstrates how Robotic Process Automation (RPA) can be leveraged to create an engaging and personalized application that bridges technology with emotional well-being. By enabling users to self-report their emotions and linking these inputs to curated playlists, the system offers a simple yet effective solution to enhance users' moods through music.

This project highlights the potential of UiPath as a tool beyond traditional automation tasks, showcasing its versatility in creative and user-centric applications. The structured approach to mood categorization and playlist management ensures that the system is both efficient and scalable. While the current implementation relies on user-reported inputs, the foundation laid by this version can be expanded in the future with advanced features such as automated mood detection and integration with music streaming services.

In conclusion, the Mood-Based Music Player not only fulfills its objective of providing mood-aligned music recommendations but also serves as a proof of concept for integrating RPA with personalized digital experiences.

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6. <https://forum.uipath.com/>