A PROPOSAL ON THE PROJECT

VOTIX

Presented by:

Rishav Adhikari

Nimesh Adhikari

Aadarsha Dahal

Bal kumar Shrestha

Submitted To:

CSIT Department

Academic Session: 2080/2081

Academic Program: B.Sc. CSIT

Level: Undergraduate (Bachelor)

<u>TABLE OF CONTENTS :</u>

ABSTRACT

VOTIX is a debate-focused social media platform aimed at facilitating structured, meaningful, and sentiment-driven discussions online. Through topic-based channels, users engage in debates, post multimedia content, and participate in upvote/downvote systems. Unlike conventional social networks, VOTIX prioritizes depth and diversity of opinions while visualizing sentiment via indicators. The platform supports community building, reputation scoring, and quality content moderation. Built using HTML, CSS, JavaScript, and Firebase, the project promotes democratic online dialogue, civic awareness, and public discourse enhancement.

List of Tables

List of Figures

CHAPTER 1: INTRODUCTION

1.1 Background

VOTIX is a digital platform designed to elevate online conversations from superficial popularity contests to structured, meaningful debates. The goal is to create a social platform that visualizes sentiment, rewards user contributions, and helps measure public opinion.

1.2 Problem Statement

Social platforms today often lack depth in engagement and effective tools to represent public sentiment. There is a need for a forum that prioritizes diverse views, structured discourse, and reputation-based content curation.

1.3 Objectives

- To promote diverse and meaningful discussions.
- To encourage critical thinking through structured debates.
- To provide transparent sentiment indicators.

1.4 Applications

- Civic awareness and public opinion polling
- Political and academic debates
- Social trend and sentiment analysis
- Content-based community building

1.5 Project Features

- Sentiment bar per post
- Topic-based channels
- Agree/Disagree and comment system
- Multimedia support (text, image)

1.6 Feasibility Analysis

- Economic: Uses free tools; minimal cost
- Technical: Feasible with Firebase, JavaScript
- Operational: Practical and user-friendly interface

CHAPTER 2: LITERATURE REVIEW

2.1 History

Online forums, such as Reddit and Quora, have long enabled open discussions, allowing users to share opinions and information across a wide range of topics. While these platforms support conversation, they aren't designed for structured debate. Threads often become disorganized, with sentiment and argument quality difficult to track.

Reputation systems on these platforms, such as upvotes or karma, tend to reward popularity rather than the strength or clarity of an argument. As a result, thoughtful contributions can be overlooked, and discussions may lack balance or depth.

These limitations highlight the need for a dedicated debate platform—one that offers structured argument formats, transparent sentiment tracking, and a reputation system that values reasoned, respectful discourse.

2.2 Existing System

Platforms like Reddit allow topic-based discussions but prioritize posts by upvotes alone. Facebook supports comments but lacks structured debate features. VOTIX differentiates itself with its sentiment visualization and user engagement system.

CHAPTER 3: METHODOLOGY

3.1 Methodology

1. **Agile Development:**

   To build our project effectively, we followed an agile development approach, which allowed us to work in short, manageable iterations. This helped us stay flexible and make improvements based on regular feedback as we moved forward.

2. **UI/UX Design (Figma):**

   For designing the user interface and experience, we used Figma. It made it easy to create and share mockups, collaborate as a team, and quickly tweak designs based on input from others.

3. **Frontend Development:**

   On the frontend, we worked with HTML, CSS, and JavaScript to build the core structure, style, and functionality of the app. These tools gave us the flexibility to create a responsive and interactive user experience.

4. **Backend with Firebase:**

   For the backend, we chose Firebase, which handled both our database and user authentication. It saved us time by providing built-in features and a reliable, real-time database without the need to manage servers.

5. Version Control with GitHub:

Throughout the project, we used GitHub for version control. It helped us collaborate smoothly, keep track of code changes, and manage our progress efficiently as a team.
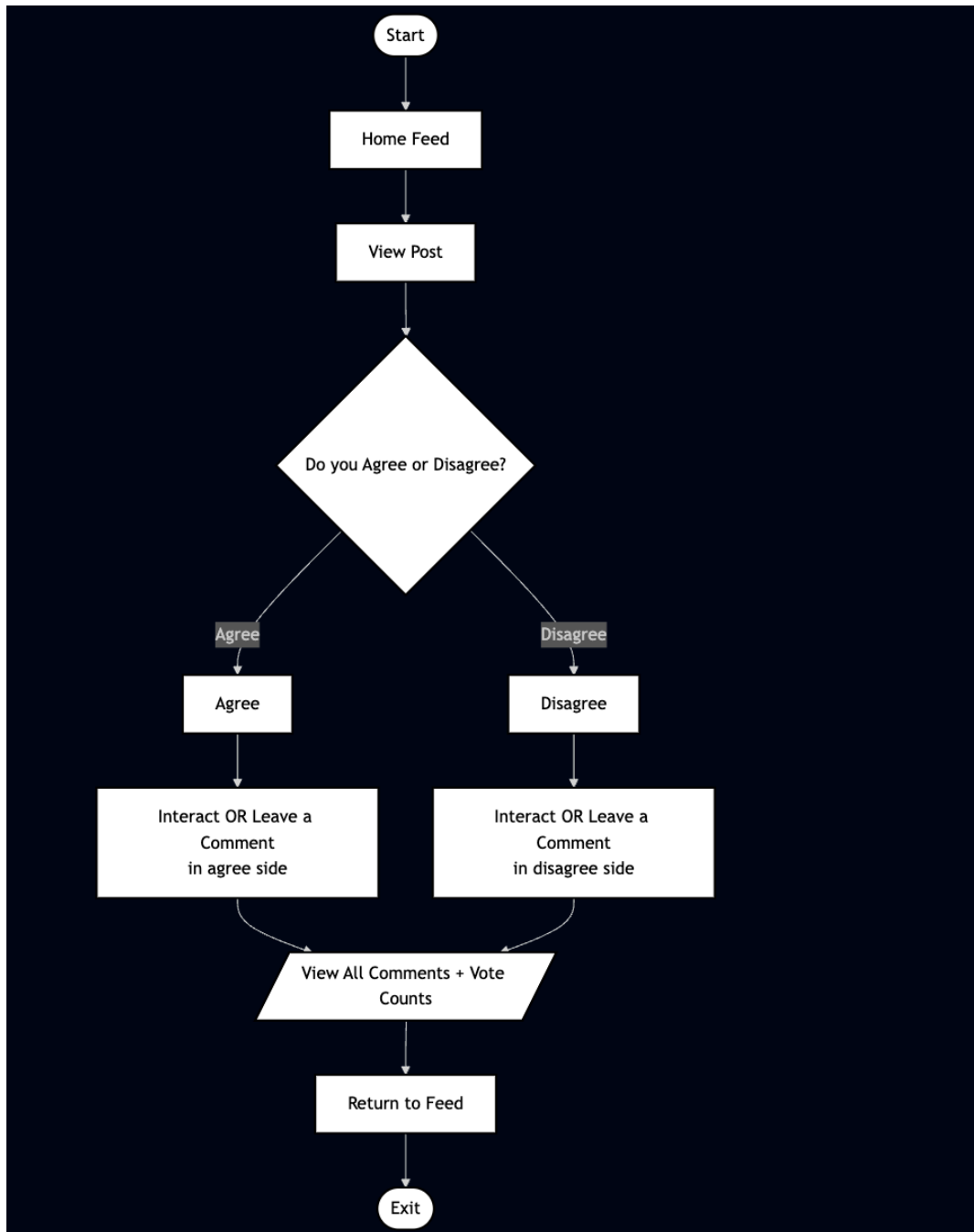
3.2 Flowchart

FIG 1: User Flow Diagram

CHAPTER 4: EPILOGUE

4.1 Expected Output

- Real-time, sentiment-based post display
- Engagement-based ranking
- Public opinion visualization tools

4.2 Budget Analysis Table

Factor	Details
Team Members	4
Work Hours Daily	~1.5 hrs
Pay per day	Rs. 555
Duration	90 days
Cost per Person	Rs. 12,500
Total Budget	Rs. 50,000

4.3 Work Schedule Table

Work Schedule

ID	Task Name	Duration	Month 1				Month 2				Month 3			
			W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
1	Planning & Documentation	90d	■	■	■	■	■	■	■	■	■	■	■	■
2	Design & Frontend Setup	20d			■	■	■							
3	JavaScript & Backend Dev	24d					■	■	■	■				
4	Core Features Integration	21d								■	■	■		
5	Testing & Deployment	10d											■	■
6	Final Adjustments	5d												■

Planning & Documentation Design & Frontend JavaScript & Backend Core Features Testing & Deployment Final Adjustments

Total Project Duration: 90 Days (3 Months)

References:

1. Firebase Documentation, https://firebase.google.com
2. Figma UI/UX Design Manual
3. GitHub Guides, https://docs.github.com
4. CSIT course reference materials and notes.