Audience Response System

Vision

# Introduction

Every year technology gets more integrated into academics, business, and social gatherings. Simultaneously, people are becoming more concerned about the footprint they leave online and the amount of information they might be unwittingly handing over to a multitude of companies. This has created a large gap in the market where people want technology to help them communicate while also preserving privacy. The Audience Response System (ARS) fills this gap.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | The fear of asking for help |
| affects | Students, crowds, those without power |
| the impact of which is | Insufficient communication to be successful |
| a successful solution would be | A response system that protects privacy while ensuring communication |

## Product Position Statement

|  |  |
| --- | --- |
| For | Public speakers |
| Who | Rely on feedback from their audience to be successful |
| The (product name) | Audience Response System |
| That | Allows anonymous communication and real-time speech feedback |
| Unlike | Zoom, Microsoft Teams, Webex, and Team Viewer |
| Our product | Holds no user data and allows users to speak pseudo-anonymously more easily. |

# Stakeholder Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| Technische Hochschule Ulm | Applied Sciences University in Germany responsible for educating the future generation of engineers and scientists. | THU is responsible with providing important development resources such as servers, access to printers, reliable internet connection, etc…  THU will also provide the necessary funds and the students to participate in this project. |

## User Environment

Each session will consist of a single owner and many users, users may come and go as they please though if the owner leaves the session closes. A session may last up to a maximum of 12 hours. A reliable internet connection is required as the ARS is not available offline. The ARS will have most of its support in Microsoft Edge, Firefox, Google Chrome (and Chromium based browsers), the ARS will also be usable on mobile devices via the web browser.

# Product Overview

## Needs and Features

|  |  |  |  |
| --- | --- | --- | --- |
| **Need** | **Priority** | **Features** | **Planned Release** |
| Users can post messages visible to other users | High | Text box, character counter, user dashboard | January 2023 |
| Users can reply to messages posted by other users | High | Reply box, information about poster, order of messages | January 2023 |
| Users can like messages | Low | A like button, something to keep track of who liked a comment, something to count the likes | January 2023 |
| Users can edit comments | Medium | An edit button, an updated timestamp on the message | January 2023 |
| Users can delete their comments | Medium | A delete button, something to keep track of dependent replies | January 2023 |
| Users can change their display name | Medium | Keep track of who posted what comment and a button to change the display name | January 2023 |
| Users can leave sessions | High | A leave button | January 2023 |
| Owners can create sessions | High | A create button, an owner dashboard, a unique password | January 2023 |
| Users can join sessions | High | A join button | January 2023 |
| Users and owners can be directed back to a session after they’ve closed the browser | High | Local storage to store the session ID and password. | January 2023 |
| A visible toggle to pre-screen messages before they’re posted. | High | Owner dashboard and a switch to toggle messages. Need a way to track which messages are visible | January 2023 |
| A statistics screen to view number of total messages | Low | Chart making library and separate view for statistics | January 2023 |
| Panic buttons users can push to instantly communicate information | High | Button menu, useful options to communicate to speaker, way to prevent button spam | January 2023 |
| Useful way for owner to view panic button information | High | Chart making library and separate view for panic statistics | January 2023 |
| Owner can create polls that users can vote in | Medium | Poll making library, timer, multiple options of selection | TBD |
| Owner can create quiz questions | Medium | Timer, storing correct quiz information, tracking accuracy | TBD |
| Owner can close a session for all users | High | Way to communicate to all users at once, a close button | January 2023 |

# Other Product Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement** | **Priority** | **Planned Release** |
| Windows, Linux, or MacOS | High | January 2023 |
| To host custom server a Java Virtual Machine | High | January 2023 |
| To host custom DB, Microsoft SQL Server | High | January 2023 |
| Guaranteed support for Firefox, Chrome, and Microsoft Edge | High | January 2023 |
| Custom server and custom DB set up guide | High | January 2023 |
| Able to bind to port 443 | High | January 2023 |
| A stable internet connection | High | January 2023 |