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## Department of Computer Science & Engineering

## UE17CS355 – Web Tech II Laboratory

# Project Evaluation

Project Title : Make-a-Poll: A polling website

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# Project Description

Make-a-Poll is a responsive website where anyone can anonymously create polls, vote on them and analyse the results.

Key features include the option to create polls with any number of options, the option to set a limit on the number of total votes for a poll, and the option to set an expiry time for the poll. Users can also view the popular and recently created polls. A poll can be marked as private when creating it – doing so will hide it from the public lists. While creating, a live preview is shown so that the user will have an idea of how the poll will be displayed.

The results of a poll are shown in the form of an interactive pie chart which users can modify by hiding or showing specific options from the results. There are also options to share the polls or results on social media websites. When viewing the results of a poll, users are suggested other similar polls that they might be interested in.

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# Technologies Used

The technologies used to build Make-a-Poll are:

- jquery – Frontend framework
- Flask – Backend framework
- MongoDB – Backend database

Additional technologies and frameworks used are:

- Bulma.css, a frontend css framework
- FontAwesome, an icon toolkit
- Chart.js, a javascript framework for displaying charts on canvas
- MeaningCloud, a SaaS product that has been used to categorize polls through text classification algorithms.


# Techniques Implemented

The techniques implemented in Make-a-Poll are:

- **Asynchronous AJAX HTTP request** – to vote on polls.
- **AJAX periodic refresh** – to view the live results of polls.
- **RESTful APIs** – The Flask server provides REST APIs for communication between the backend and frontend.


# Intelligent Functionality

The intelligent functionality in Make-a-Poll is the recommendation of similar polls to the a given poll on its results page. This is made possible by automatic categorization of each poll when it is created. Thus, polls which fall in the same category are recommended to users.

The automatic categorization is done through a text classification algorithm using the IAB classification model. MeetingCloud is an online SaaS product that provides an API for this purpose of text classification and we extract the category based on its output. Using the output, we can put polls into categories and recommend similar polls to users.

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# Thank You