

Poll Aggregation in Real Time (PART)

Group 77-

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What does it do ?

- The app provides an interface for conducting polls/quizzes/surveys and obtaining the results in real time.
- A user who wishes to conduct polls can create an account using a verified email-id.
- S/He can create classrooms and add quizzes to it which will contain objective questions with multiple choice. A classroom can be used by more than one user which enables people to collaborate on projects .
- The user can publish and close the quiz as and when required which makes it possible to use it as a fun social quiz app or for testing purposes .
- Students can answer quizzes/surveys anonymously.
- The classrooms,quizzes,votes etc.. are stored in the database and can be accessed by the user anytime.

How does it work ?

- The technologies used are Django framework integrated with postgresql for database management, Bootstrap and CSS to style the HTML web pages.
- Registration of new users is implemented using the django-registration package.
- The Django admin page has been redesigned to render only user-specific data and inline functionality has been added to make adding new quizzes faster.
- The dashboard displays the user's classrooms and their quizzes and provides options to publish/unpublish the quiz, see results and edit the database.
- Students can vote anonymously using the uniquely generated key.
- A persistent connection is made between the server and clients using the websockets and the asyncio python packages which loads the results in real time without the need for reloading the page.

How can we improve it?

- Present model is versatile and can be adapted to create buzzer system using websocket functionality and classroom management.
- The quizzes can be made more general by incorporating text answers, multiple choices,
- A checking system can be added which evaluates the answers and provides a feedback to the student.
- Importing/Exporting quizzes so that it can be shared.
- Account support for students can be added to record their responses and to control quiz access.
- MAC filter can be used to prevent multiple responses.