



MAKERERE UNIVERSITY

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Introduction.

The Student Feedback Django Web Application is a comprehensive tool designed to facilitate the collection, analysis, and reporting of feedback from students about various aspects of an educational institution. This documentation provides an in-depth overview of the web application, its architecture, features, installation steps, and usage guide.

System Overview.

Assumptions:

- The student is already registered with the University and uses his/her login credentials(student number and password) to log into the system.
- The courses and course units are from the university database
- The administrators are already registered with the university hence use there credentials to log into the system

Architecture.

The web application follows the model-view-template (MVT) architecture pattern, with a strong emphasis on the Django framework's built-in components.

- **Model:** represents the data structure and interacts with the database.
- **View:** defines how data is presented to users.
- **Template:** This utilises django's templating system

Technologies

Django framework: Provides the foundation for building the web application.

Python: The primary programming language used for server-side logic.

HTML, CSS, JavaScript: Used for front-end development and user interface.

MySQL: The chosen database management system for storing feedback and log in data.

Streamlit: Utilized for data visualization and analytics.

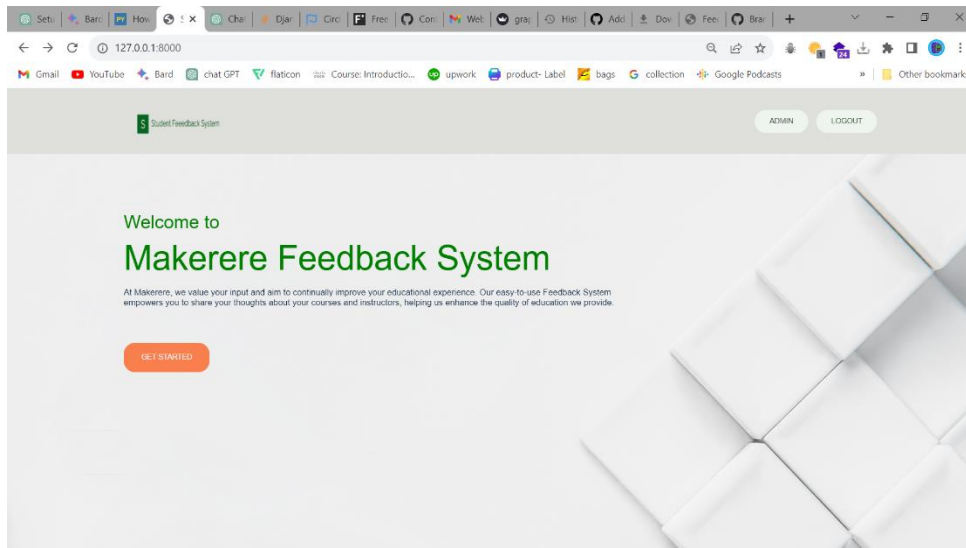
Features.

User roles.

- **Admin:** The admin visualises and analyses the feedback from the feedbacks and makes sense of it.
- **Student:** Only provides feedback.

Landing Page:

- This is where users are redirected to When they come to the site



Feedback submission.

- Students can provide feedback on courses, instructors and campus facilities.
- Feedback is both quantitative and qualitative

A screenshot of the 'Feedback Form' submission page. The browser's address bar shows '127.0.0.1:8000/index/'. The page has a light green header with the system name and 'ADMIN' and 'LOGOUT' buttons. The main content area is titled 'Choose your details' and contains two input fields for 'YEAR' and 'SEMESTER', both set to '1'. Below these fields is a 'Submit' button. The section is titled 'Feedback Form' and contains a box with the text 'Courses feedback forms' and three instructions: '1. The form is supposed to be filled according to the courses one is doing', '2. Please endeavour to fill in form independently', and '3. No two forms shall be filled for one course'. Below this box is a row of five course cards, each with a 'SPORTSMEN GRADUATION' logo and a 'THANK YOU!' message. The courses are: 'Problem Solving and Programming Concepts', 'Communication Skills' (with an orange 'Select' button), 'Mathematics for Software Engineers', 'Technical Analysis and Design', and 'Foundations of Information Systems & Technology'.

Student Feedback System

ADMIN LOGOUT

Rate your satisfaction level with the following aspects of the university:

LECTURE ROOMS:

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5

HALLS OF RESIDENCE:

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5

CAFETERIAS:

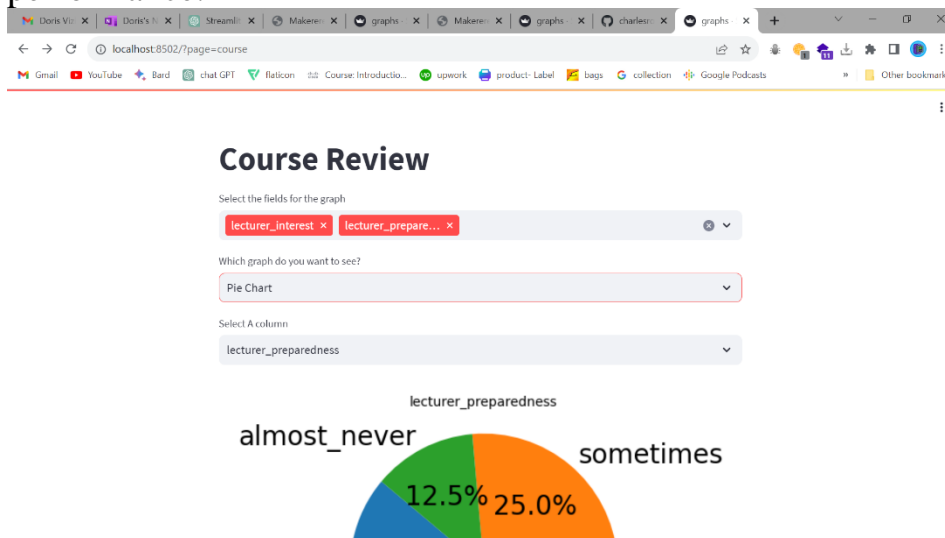
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5

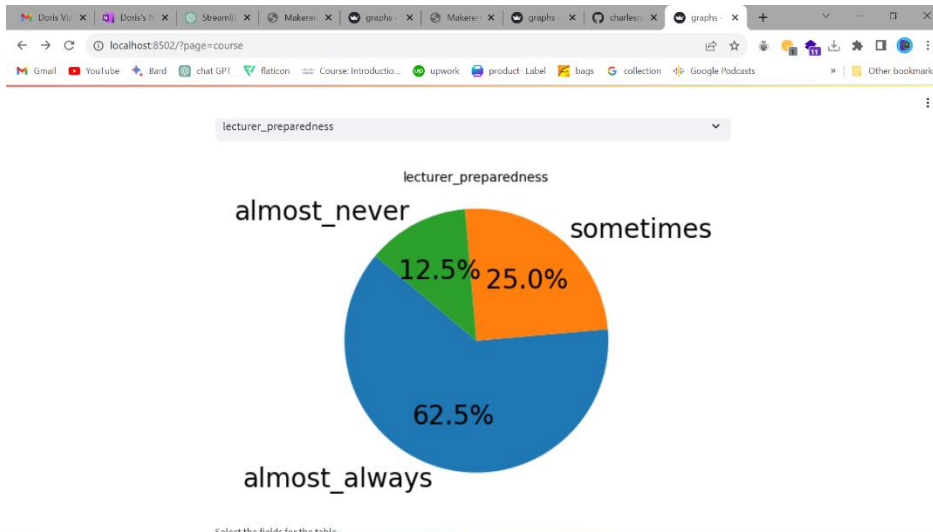
SPORTS EQUIPMENT:

☐ 1
☐ 2

Data Management.

- All feedback submissions are stored in a MySQL database under there respective tables.
- Data integrity and security are maintained through Django's built-in mechanisms.
- Analytics and reporting.
- Admin users can generate reports and visualize trends using charts.
- Reports provide insights into course and facility effectiveness, and instructor performance.





Installation and setup.

Prerequisites:

- Django
- Streamlit
- Bootstrap
- Crispy-forms
- Mysql
- python

Usage guide.

- User login.
- Access the application via a web browser.
- Register as a student or admin using the provided forms.
- Log in using your credentials.
- Providing feedback.
- Students can submit feedback by selecting a year and semester.
- The system then displays the course units that match the year and semester.
- There are two feedback forms, one for courses and instructors and the other for facilities.
- The feedback is then submitted and saved in a database
- Viewing feedback.

- Admin view gives an overview of the system, managing the visualizations and analysis.
- Charts provide visual insights into feedback trends.
- The table can be queried for specific data.
- Reports can be filtered by date, course or year.

Troubleshooting.

- Ensure all prerequisites are properly installed.
- Check database configurations in 'settings.py'.
- Review error messages for guidance.

Future enhancements.

- Integration with email notifications for admins.
- Possibility of adding api's to the system for other end users
- Multi-language support for international users.
- Integration with external tools for enhanced analytics.

Conclusion.

The student feedback Django we application serves as a valuable tool for educational institutions to gather and analyze feedback from students, facilitating continuous improvement in course quality and instructor performance.

References.

Django documentation: <https://docs.djangoproject.com/>

MySQL Documentation: <https://dev.mysql.com/>

Streamlit Documentation: <https://docs.streamlit.io/>