

NatHaz Survey Generation Application

By

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Overview:

The application uses Google Form to collect area relevant hazards, and generate student survey by analyzing instructor form response using Google Apps Script. The application uploads the collected data to mysql database using a java application.

Google Apps Script:

The script generates an instructor form and save the url to the script. Instructor form submission triggers studentSurveyGenerate(), that validates the instructor email before generating student survey then analyze instructor response and generate a survey based on the response, send the student survey link to the instructor and save the link to a spreadsheet.

Java Application:

Provides a graphical user interface to upload data. The application process three spread sheets and add it to relevant table in mysql database: Student Survey Link Sheet, Instructor Form response spreadsheet, Student survey(s) response sheet(s)

Future modifications:

1. add timestamp values into database tables.
2. Check for already available data and add only what is not present in database.
3. Include instructor choices in 'Instructor Survey' table.
4. More pleasurable GUI

Instructions to use the application

1-Fill out Recipients List spread sheet with valid instructor's name and email.

2-Send Instructor Form to the instructors.

--The application will analyze each instructor response and generate relevant student survey based on the choices, the student survey link will be emailed to the instructor and added to Student Survey Link Sheet, and the survey can be found on NatHaz Google drive of nathaz@boisestate.edu.

After collecting the student responses, possibly after the survey is closed:

3- From the drive, download these files as .tsv

- A. Student Survey Link Sheet
- B. Instructor Form response spreadsheet
- C. Student survey(s) response sheet(s)

4- Use the java program to upload these files to update the database using this order:

- A. student survey link sheet.
- B. Instructor Form response spreadsheet
- C. Student survey responses.