SURVEY MAKER

A GUI that allows user to create a list of survey questions and ways to answer each question. User needs to input the title of the survey, question, and the type of question. There are three types of question available

1. Check box : 2-4 options specified by user (multiple pick possible)
2. Text box : simple text field to fill
3. Radio button : 2-4 options specified by user (choose one)

Each question is temporarily saved into a table in the GUI when the Next button is pressed. Survey questions, types, and choices can then be saved from the GUI table into a database table named after the title of the survey in the title text field. It also prepares a report table for saving survey results. As a multiple choices question has multiple options, it must have at least two options before it can be saved. For survey to be properly made, it cannot be saved into database until it has at least 3 questions.

DATA DICTIONARY

Databases

Survey Database

New table made every time a survey is made. Must have at least 3 rows.

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Nullable | Description |
| Question | Varchar | No | Stores each question of the survey |
| Type | Integer | No | Type of question   1. Check box 2. Text field 3. Radio Button |
| Choice 1 | Varchar | Yes | Stores the first choice for type 1 or 3. (Mandatory) |
| Choice 2 | Varchar | Yes | Stores the second choice for type 1 or 3. (Mandatory) |
| Choice 3 | Varchar | Yes | Stores the third choice for type 1 or 3. (Optional) |
| Choice 4 | Varchar | Yes | Stores the fourth choice for type 1 or 3. (Optional) |

Report Database

Dynamically made table depending on the amount of questions the survey has.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| Person | Integer | Number arrangement of survey respondent |
| <Question Name> | Varchar | Stores the answer of each respondent |

Title Database

Stores the survey names to be displayed in a list

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| Title | varchar | Title of existing survey |

Classes

|  |  |
| --- | --- |
| SurveyList | GUI that displays existing surveys on a list for users to answer survey, check the report and create new one |
| SurveyGUI | GUI that allows users to make a new survey. Survey questions will be saved in a new table in survey database and prepares a table for report in the report database |
| SurveyProgram | Opens existing survey for users to answer, the result will be saved in the report table created in the prepared report database |
| Report1 | Takes from report database to display the survey report in a table |
| Connect | Contains the methods to connect to the survey database, report database, and survey list database. Can be called in the classes that requires any of the databases |
| ProgramOperation | Contains methods called to manipulate the GUI |

|  |
| --- |
| SurveyList |
| dlm : DefaultListModel  rs : ResultSet  choice : String  cn : Connect |
| fillList() : void |

|  |
| --- |
| Connect |
| con : Connection  cons : Connection  cont : Connection  stm : Statement  stms : Statement  stmt : Statement |
| linkQuestion() : void  linkReport() : void  linkSurveyList() : void |

|  |
| --- |
| SurveyGUI |
| dtm : DefaultTableModel  rs : ResultSet  rs2 : ResultSet  qNum : int  title : String  con : Connect |
| startPoint : void  fillCombo : void  groupButton : void |

|  |
| --- |
| SurveyProgram |
| con : Connection  cont : Connection  stm : Statement  stmt : Statement  rs : ResultSet  rs1 : ResultSet  Title : String  input : String[]  data : String  value : ArrayList<String>  i : Int |
| groupButton() : void  linkQuestion() : void  linkReport() : void |

|  |
| --- |
| ProgramOperation |
|  |
| switchPanel() : void |