

User Interface Design and Implementation, Design of Tests

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1. The forms I have started to create in MS Access are very reminiscent of the sketches I had created earlier in the semester. I am focusing on trying to display the information in an easy-to-understand listing that also directs the user to know which fields will be required for a successful alteration to the database. I'm also including images in the header along with a brief description that will allow them to easily recognize that they will be altering the respective table. I'm still learning how to really increase the overall design appeal through tutorial videos, but I have created initial mockups to be viewed in the provided screenshots to showcase at minimum their base idea.

Input New Case Form

Please Fill Out All Fields:

case_id	district_id	officer_id	case_open_date	case_status
202481112	1	20248112	1/1/2024	Closed

Record: 1 of 14

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The screenshot displays the Microsoft Access application window. The title bar indicates the database is 'LE_Evidence_Database'. The ribbon at the top includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Help'. The 'All Access Objects' task pane on the left shows a list of tables: 'cases', 'district_supervisors', 'districts', 'evidence', 'firearms_evidence', and 'officers'. Below the tables, the 'Forms' section shows 'Create New Case Form' and 'Create New Officer Profile Form'. The main window area displays the 'Create New Officer Profile' form, which has a blue header with the title and a police badge icon. Below the header, it says 'Please Input Data Into All Fields:'. The form contains the following fields: 'Badge#' (with value 20245110), 'First Name' (with value William), 'Middle Initial' (with value D.), 'Last Name' (with value Lesley), 'Shift' (with value 1), 'District' (with value 1), and 'District Supervisor ID' (empty). The status bar at the bottom shows 'Form View' and 'Record: 1 of 22'.

The unit testing for my demo will consist of demonstrating forms a user can alter the linked table data in real time after a refresh period, which will be available for each respective table for whenever a user would need to introduce new data to the system. I'm also planning on creating preset queries that would be more likely to be utilized by users when searching for specific information, such as searching for the number of cases that an officer has input into the system, analyzing the number of cases by district or zip code, the type of crimes being input into the system with their respective evidence. I will also be designing formatted reports that can then be printed off by the user that will have a professional and ordered appearance. One example for the type of report could be a print-out of all cases that have been submitted into the system for a district supervisor's respective officers. My hope is that by the end of my project it will be a professional appearing system that could be recognized by an Indiana State Trooper.