**Overview**This is a Java-based desktop application designed to manage participant registration and tracking for Victoria University's Innovation and Technology Exhibition. The application uses JavaFX for the graphical user interface (GUI) and integrates with a Microsoft Access database to store participant information. It supports full CRUD (Create, Read, Update, Delete) operations and includes features for uploading and displaying project images.  
  
 **Features**- Register Participants: Add new participants to the database.  
- Search Participants: Retrieve participant details by their Registration ID.  
- Update Participant Details: Modify existing participant information.  
- Delete Participants: Remove participants from the database.  
- Image Upload and Display: Upload and display project images.  
- Input Validation: Ensures all required fields are filled and the email format is correct.  
  
 **Usage Instructions**  
 **Prerequisites**- Java Development Kit (JDK) 8 or later  
- JavaFX runtime (if not included in your JDK)  
- Microsoft Access (for creating and managing the database)  
  
 **Running the Application**  
**1. Clone the Repository:**   - Open a command line interface (CLI) and navigate to the directory where you want to clone the repository.

   git clone *https://github.com/yourusername/ExhibitionRegistrationSystem.git*  
  
  
**2. Navigate to the Project Directory:**   - Change into the cloned repository directory.  
  
   cd ExhibitionRegistrationSystem  
  
**3. Open the Project in IntelliJ IDEA:**   - Open IntelliJ IDEA.  
   - Select `Open` from the welcome screen.  
   - Navigate to the cloned repository directory and open the project.  
  
**4. Add UCanAccess JDBC Driver to the Classpath:**   - Download the UCanAccess JDBC driver and its dependencies from the official website or Maven Central.  
   - Place the following JAR files in the `lib` directory:  
     - `ucanaccess-5.0.0.jar`  
     - `hsqldb-2.5.1.jar`  
     - `jackcess-3.0.1.jar`  
     - `commons-lang3-3.12.0.jar`  
     - `commons-logging-1.2.jar`  
   - In IntelliJ IDEA, go to `File` > `Project Structure` (or press `Ctrl + Alt + Shift + S`).  
   - Select `Modules` from the left-hand menu.  
   - Go to the `Dependencies` tab.  
   - Click the `+` icon and select `JARs or directories...`.  
   - Navigate to the `lib` directory and select all the JAR files.  
   - Click `OK` to add them to the module dependencies.  
  
**5. Run the Application:**   - Right-click on the `ExhibitionRegistration.java` file in the Project Explorer.  
   - Select `Run 'ExhibitionRegistration.main()'`.  
  
 **User Interface**  
**The application provides a user-friendly interface with the following components:**  
- Form Fields:  
  - Registration ID: Auto-generated when a new participant is registered.  
  - Student Name: Name of the participant.  
  - Faculty: Faculty of the participant.  
  - Project Title: Title of the project.  
  - Contact Number: Contact number of the participant.  
  - Email Address: Email address of the participant.  
  - Project Image Path: Path to the project image file.  
  
- Buttons:  
  - Register: Add a new participant to the database.  
  - Search: Retrieve participant details by their Registration ID.  
  - Update: Modify existing participant information.  
  - Delete: Remove a participant from the database.  
  - Clear: Clear all form fields.  
  - Exit: Close the application.  
  - Browse: Select and upload a project image file.

**Step-by-Step Usage**  
**1. Register a Participant:**   - Fill in all the form fields: Student Name, Faculty, Project Title, Contact Number, Email Address, and Project Image Path.  
   - Click the `Browse` button to select an image file.  
   - Click the `Register` button to add the participant to the database.  
  
**2. Search for a Participant:**   - Enter the Registration ID of the participant you want to search for.  
   - Click the `Search` button to retrieve the participant's details.  
  
**3. Update Participant Details:**   - Search for the participant using their Registration ID.  
   - Modify the required fields.  
   - Click the `Update` button to save the changes.  
  
**4. Delete a Participant:**   - Enter the Registration ID of the participant you want to delete.  
   - Click the `Delete` button to remove the participant from the database.  
  
**5. Clear Form Fields:**   - Click the `Clear` button to clear all form fields.  
  
**6. Exit the Application:**   - Click the `Exit` button to close the application.  
  
 **Input Validation**- No Empty Fields: The application checks if any of the required fields are empty before performing database operations.  
- Correct Email Format: The email address is validated using a regular expression to ensure it follows the correct format.  
  
 **Example Screenshots**  
**1. Main Application Window:**   Main Application Window(docs/main\_window.png)  
  
**2. Registering a Participant:**   Registering a Participant(docs/register\_participant.png)  
  
**3. Searching for a Participant:**   Searching for a Participant (docs/search\_participant.png)  
  
**4. Updating Participant Details:**   Updating Participant Details(docs/update\_participant.png)  
  
**5. Deleting a Participant:**   Deleting a Participant (docs/delete\_participant.png)  
  
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