**Independent Completion Form**

**Team Members Information**

1. **Name:** AKM Shahariar Azad Rabby
   * **BlazerID:** arabby
2. **Name:** Pratim Saha
   * **BlazerID:** psaha

**Contributions**

**Member 1: AKM Shahariar Azad Rabby**

* **Design Deep learning Model:**
  + Design a convolutional neural network for breast cancer detection
  + Saving the weight of the model with best AUC to integrate in the website.
* **Backend Development:**
  + Developed the Flask backend including routes for login, signup, image upload, and prediction functionalities.
  + Integrated the deep learning model with the Flask application to handle image predictions.
  + Implemented user authentication and session management.
* **Database Management:**
  + Designed and managed the SQLite database schema used for storing user data and prediction results.
  + Ensured data integrity and security throughout user interactions with the database.

**Member 2: Pratim Saha**

* **Frontend Development:**
  + Designed the user interface using HTML, CSS, and Bootstrap for responsive design.
  + Implemented interactive elements using JavaScript to enhance user experience, such as dynamic content visibility and form validations.
* **Testing and Documentation:**
  + Conducted thorough testing across different modules to ensure robustness and reliability of the application.
  + Compiled the project documentation including setup instructions, user guide, and README file for the GitHub repository.
* **Write project report:**
  + Writing the project report and create project video for demonstration as a requirement for the successful project completion.

**Conclusion**

Both team members contributed significantly across different aspects of the project, ensuring a balanced workload and a comprehensive approach to the development of the Breast Ultrasound Image Classification application. Each member's expertise was utilized effectively to achieve a functional and user-friendly application.