**Games Project Milestone 1**

**GUI:**

Currently, the GUI is well on its way. A user can log in to the app. If a user has no account with the program, they can register for an account. On the main page a user has six options for their choosing, View Scores, Scorecard, Enter Scores, Tournaments, League, and an Exit button. The form has a menu bar that the user can choose where and what they want to do in the application. The enter score form allows the user to enter private scores. The Scorecard form allows the user to enter a full game, strikes, spares and normal games scores for each frame. On this scorecard has user validation and error checking when the user enters something wrong. We need to make the strike and spares buttons work and have a reset button if the user needs that. When the game is over it can automatically enter the score into the database. On the View Scores form, a user can view their scores in private, tournament, league, and all games options. Form also displays average for each type of game. We have a Leagues form which is in its starting phase. Plans for this are, Allowing the user to enter scores based on what league they are and what the league options and rules are. Tournament form is on the way. We need to find a good way to design this. thoughts are in the works but nothing final for now. In general forms has menus based on what’s on the screen. We have a working logo for the application which is being redesigned to suit what our application is.

**Database:**

The database for the program seems to be done for the most part. There is a table to store the user’s login credentials, user information, tournaments, league, teams, scores, and averages. These tables will store all the necessary information from the input on the various forms from the GUI. As far as major additions, the only things added since the last update was a field for the DOB and Gender in the user information table. Other than that, the only things that would need to be done is minor tweaks as needed. All relationships seem to be in place as well.

**Connection:**

*Completed*: A class was made to connect to the database that is within the project root. Each form can access this class and connect to the database to select from it or update it when needed. The Login Page connects to the database to check if the login credentials are correct. If the credentials are correct then the form passing the player ID to the Main Page which then passes that ID to every other page. The Registration Page inserts a new user and their information into the Login Info and Player Info tables. The Enter Bowling Scores Page inserts a new game and its total score into the Games table and updates the Bowler Averages table with the user’s new average. The Bowling Score Card inserts a new game, its frames, and its total into the Games table and updates the Bowler Averages table with the user’s new average. The Display Scores Page connects to the database and retrieves the user’s name, games, and averages to display them.

*Incomplete*: The Leagues Page will insert a new league game and its total score into the Games table and will update the Leagues table with the game. The Tournaments Page will insert the tournament name, team, players, and scores into the Tournaments table. The Teams Page will insert the user into the selected team if the team positions are not filled.

**Logo:**

Logo is coming along nicely. Currently changing the colors on the radar from green and black to blue, white, and orange to match our current color scheme.

**Beta Testing:**

Program is in beta testing to point out any errors or oversights in the program, connection, or database. Currently meeting often to discuss any problems and suggestions to further improve the application