

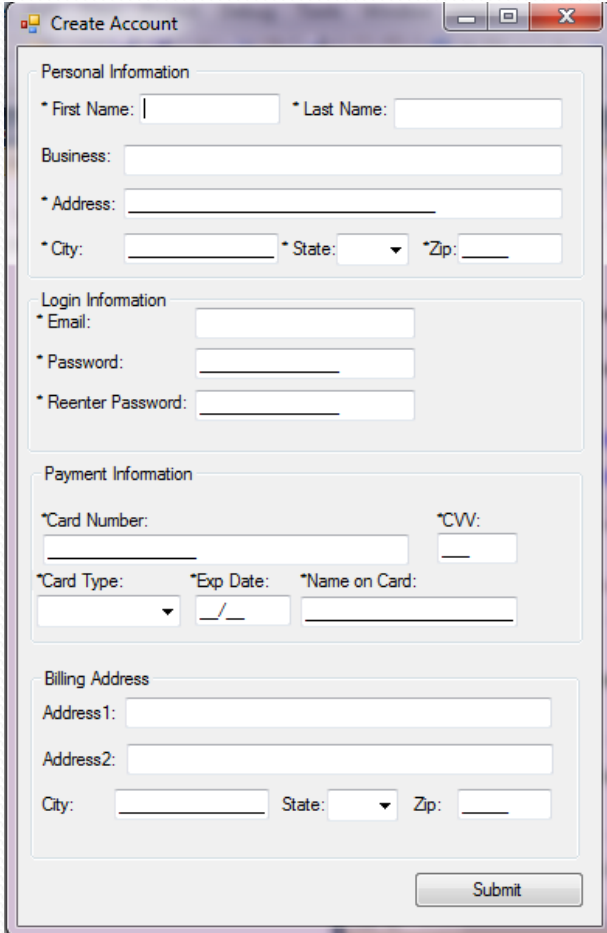
BeachSim

The Beach Simulator

Group 15

Login/Registration

- Checks
- Connected to Online Database
- Forgot Password Sends E-mail for password recovery



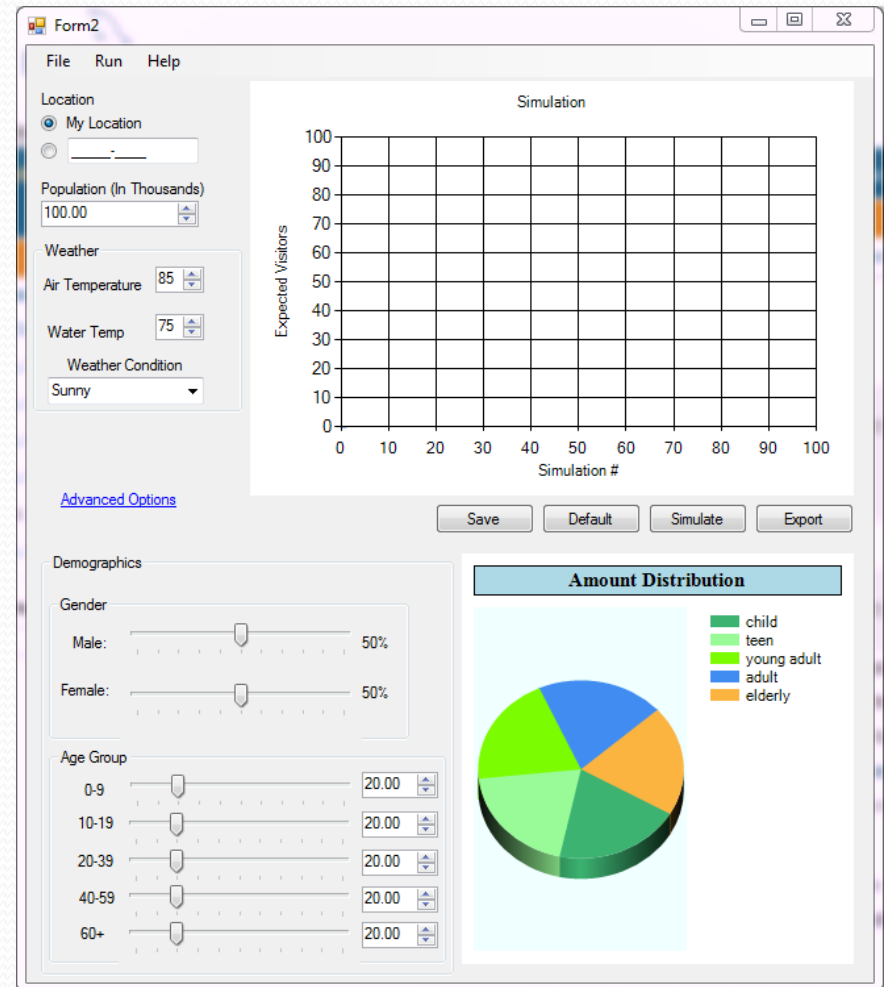
The screenshot shows a web browser window titled "Create Account". The form is organized into four main sections, each with a title and a group of input fields:

- Personal Information:** Includes fields for *First Name, *Last Name, Business, *Address, *City, *State (a dropdown menu), and *Zip.
- Login Information:** Includes fields for *Email, *Password, and *Reenter Password.
- Payment Information:** Includes fields for *Card Number, *CW, *Card Type (a dropdown menu), *Exp Date (with a slash separator), and *Name on Card.
- Billing Address:** Includes fields for Address1, Address2, City, State (a dropdown menu), and Zip.

A "Submit" button is located at the bottom right of the form.

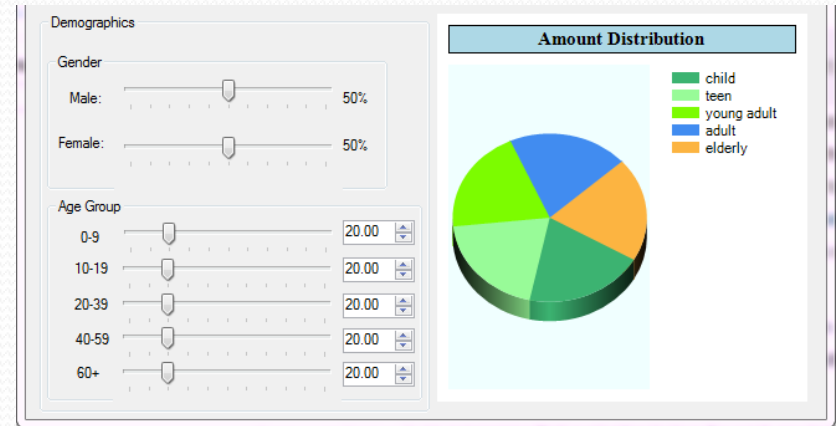
Simulator

- Basic and Advanced UI's to eliminate clutter.
- Simulates basic variables by default.
- Save settings to default.
- Export simulation data to file.



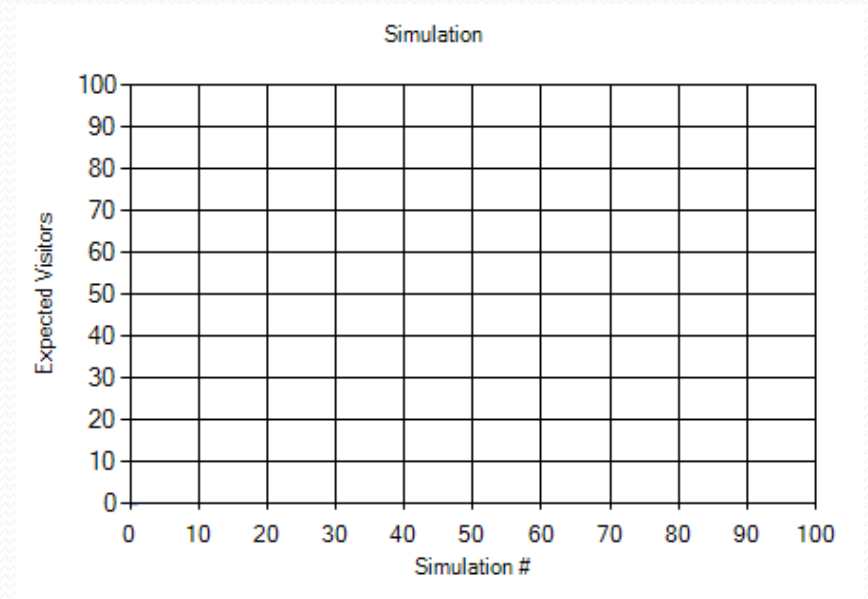
Demographics

- Normalized
 - Independent of each other
- How they affect the simulation.



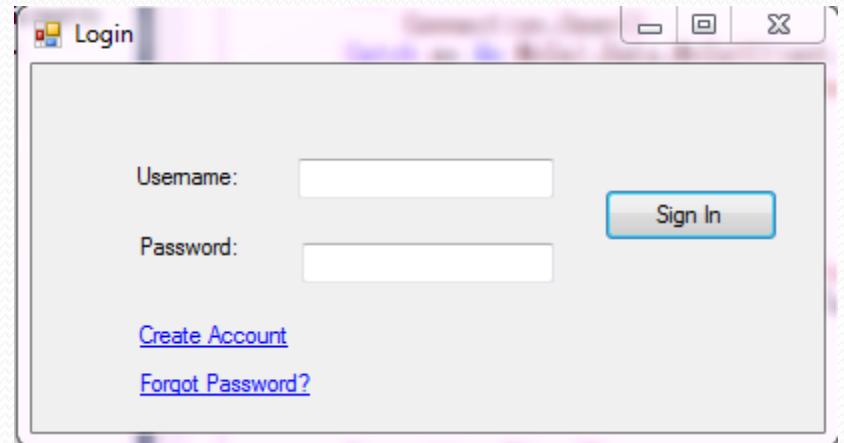
Data Model and Algorithms

- Sum of five variables determines if the conditions are “par.”
- From conditions, each agent decides if they go.
- Losing agents adjust their strategy.



Evolution

- Web-based → Application
- Online database makes it accessible anywhere.
- Software is a free download, account is paid



A screenshot of a web-based login application window. The window has a title bar with the text "Login" and standard window controls (minimize, maximize, close). The main content area is light gray and contains the following elements:

- A "Username:" label followed by a white text input field.
- A "Password:" label followed by a white text input field.
- A blue "Sign In" button to the right of the password field.
- A blue underlined link labeled "Create Account" below the password field.
- A blue underlined link labeled "Forgot Password?" below the "Create Account" link.

Future Work

- Enhance the Data Model with more factors.
- Fine tune variables by getting a larger data set.
- Add tides feature for relevant businesses
- Add dates, for the simulation to be affected by holidays and seasons.



Questions?