Criterion E: Evaluation

Evaluation of the Product According to Success Criteria

1. Within the MemberDatabase, the total amount of dues assessed each year for the three components of the dues are equal. The allocation of the dues for the equal payment component is calculated based on member weights and the allocation of dues for the number of meters and revenue minus cost of power is calculated based on a declining block. The calculated due components have been verified to be correct by the client.
2. The "Enter Membership Information" button on the LaunchScene brings users to a series of scenes that allow them to select a member and enter their number of meters, revenue, and cost of power for a new year.
3. The "View Past Due Archives" button on the LaunchScene allows users to search based on name and year and generate full reports based on a year.
4. The "View Newest Due Archives" button on the LaunchScene allows users to search based on name and generate full reports for the most recent year that dues were assessed.
5. Error messages are displayed when the users don't select options from a drop-down menu and when users do not enter valid double and integer values. Warning messages are displayed when users enter unrealistic values for new membership information.
6. The duesData.txt file is updated every time membership information is entered by the client.
7. The interface was greatly approved by the client. She stated that it was easy to navigate and understand.

Recommendations for Further Improvement

- **Invoice Generator** - The client mentioned that it would be useful to be able to generate an invoice for the dues assessed for each member. The invoice would have to be formatted in a way that follows company guidelines and must include the component dues as well as background information related to how dues were calculated. It could be added as a button on the NewestDueArchivesScene and could be sent directly to the members by the client to inform them of the dues they need to pay.
- **Accounting for special members of the cooperative** - There are some special members of the cooperative who only have to pay the equal payment component of the dues and do not have to enter in their number of meters, revenue, and cost of power each year. Thus, to make adding new membership information easier for the user, these special members would not be displayed under the drop-down menu in the MemberInfoScene and their membership information would be prefilled with zeroes.
- **Add members** - Although the cooperative only occasionally gains members, the client recommended adding a feature for users to enter in information for a new member of the cooperative. The name, ID, and weight of the new member would have to be entered along with their number of meters, revenue, and cost of power for the year that they joined.

Word Count: 459