Lab 10 – Part II. Prototype V2. Updates from the Cost-Importance Table to LFP

Updated Prototype Description

- On the Home page of visualization, we initially did not have a button where users can proceed to view the visualizations. Hence, we added a button with the name "Show Visualizations" which tells the user to click to on and proceed to visualizations.
- The next change we have made is for the namespace or the placeholder for selecting the category. At first, we had one of the categories as the placeholder which might confuse the user with the selection option. Therefore, we have changed that to a placeholder with the name "Click to select category" which clearly tells user to select the category from the dropdown list.
- For giving the users a clear knowledge about what has to be done, we have added a short description which says, "Click dropdown to change month" and "Click dropdown to change category" which tells user an action to click on the dropdown to select/change month from the available list. In this way we are also following an important affordance which is cognitive affordance by providing the user with what has to be done.
- Another major change we have made is adding "Previous" and "Next" buttons on the screen where users could proceed to next step if the details entered are good or go to the previous screen if the user needs to edit the details.
- We have also added a dialog box which tells user the selection result once the expense category has been selected. In this way, user will know what the choice of selection is and can proceed to next steps.

Task Name: Analysing the data of expenditure using graphs

Task Scenario:
Abby is a PhD student in biology. She had spent 800 dollars on her recent trip to Germany and prior to that, she spent more than 2870 on various categories which she did not remember where she spent. She is struggling when dealing with multiple calculations and numbers. Thus, she needs some way to summarize the expenses in the form of charts and graphs. Hence, she used the report and analysis section to summarize her spending of hers in terms of various graphs and categories which helps her to visualize her expenses.
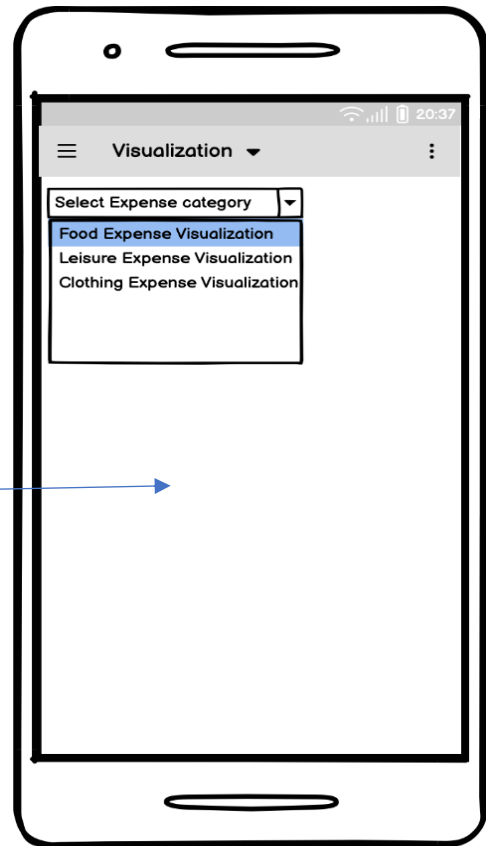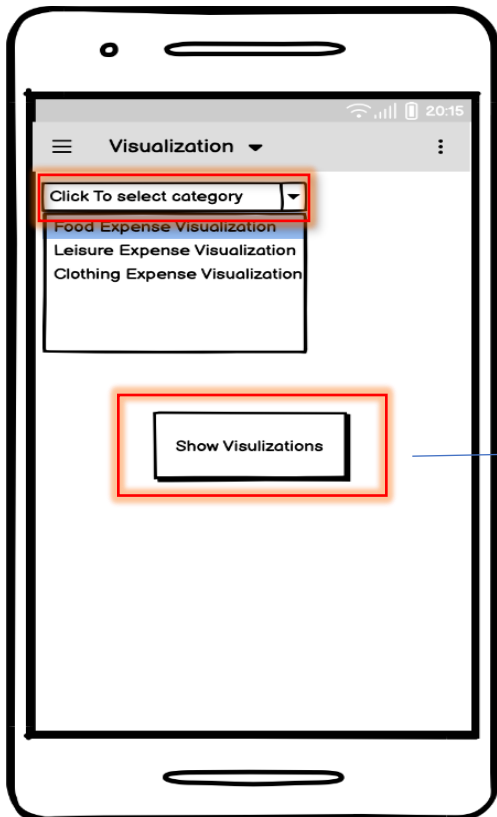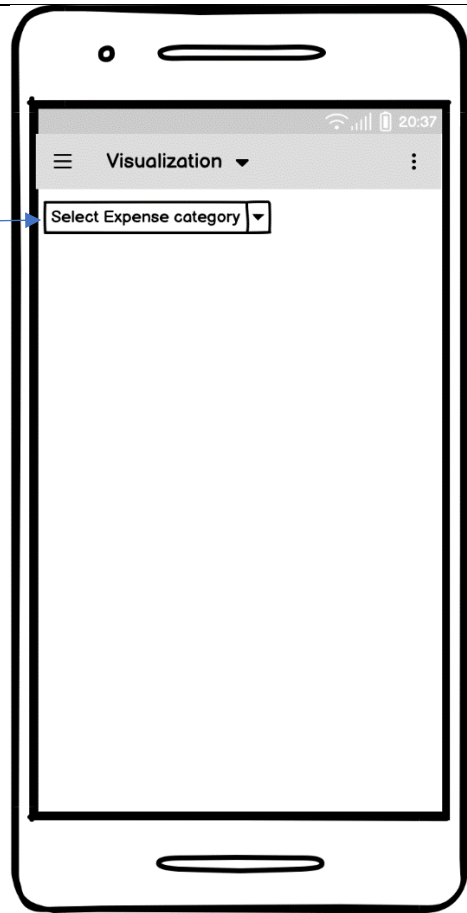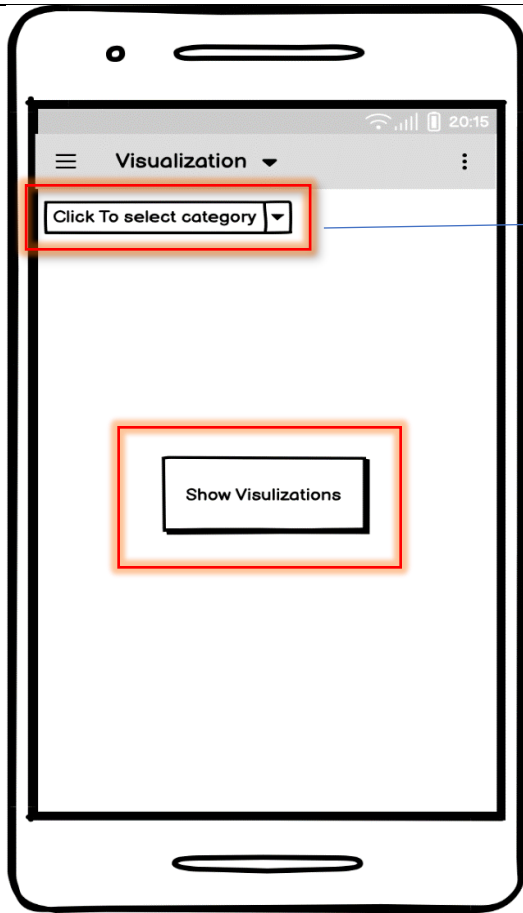
Use-Case
Normal Case (Old):
1. The user downloads the application from the play store
2. The user sets the username and password
3. The user logs into the application with a username and password
4. The user sees the home screen
5. The user opens the visualization section.
6. The user selects the expense category.
7. The user sees statistical information for that expense category based on child and parent categories for the most recent time.
8. The user changes month to get specific months' expense details.
9. The system shows visualization for specific month and expense charts.
10. The user changes month range to get information within bound months.
11. The system shows bar graphs, bar representing month within the bound months.

12.The user changes month to see daily based expense habit for a specific category.
13.The system shows daily expense habits based on month selected by user.

Normal Case (Updated):
1. The user downloads the application from the play store
2. The user sets the username and password
3. The user logs into the application with a username and password
4. The user sees the home screen
5. The user opens the visualization section.
6. The user sees the "Click to select category" option and selects the expense category.
7. The user clicks on "Show visualizations" button to view visualizations.
8. The user sees statistical information for that expense category based on child and parent categories for the most recent time.
9. The user sees a dialog box for selection choice of Expense category.
10. The user sees the description and clicks on the dropdown to changes month to get specific months' expense details.
11. The system shows visualization for specific month and expense charts.
12.The user changes month range to get information within bound months.
13.The system shows bar graphs, bar representing month within the bound months.
14.The user changes month to see daily based expense habit for a specific category.
15.The system shows daily expense habits based on month selected by the user.
16. The user clicks on the "Previous" button to change the category.
17. The system shows the analysis based on the category selected by the user.

New LFP Prototype	Old (LFP) Prototype
Step 1 from use-case_____6 & 7_____	Step 1 from use-case_____6_____

Screen 1 (top-left):
Visualization ▾

Click To select category ▾

Show Visulizations

Screen 2 (top-right):
Visualization ▾

Select Expense category ▾

Screen 3 (bottom-left):
Visualization ▾

Click To select category ▾
Food Expense Visualization
Leisure Expense Visualization
Clothing Expense Visualization

Show Visulizations

Screen 4 (bottom-right):
Visualization ▾

Select Expense category ▾
Food Expense Visualization
Leisure Expense Visualization
Clothing Expense Visualization

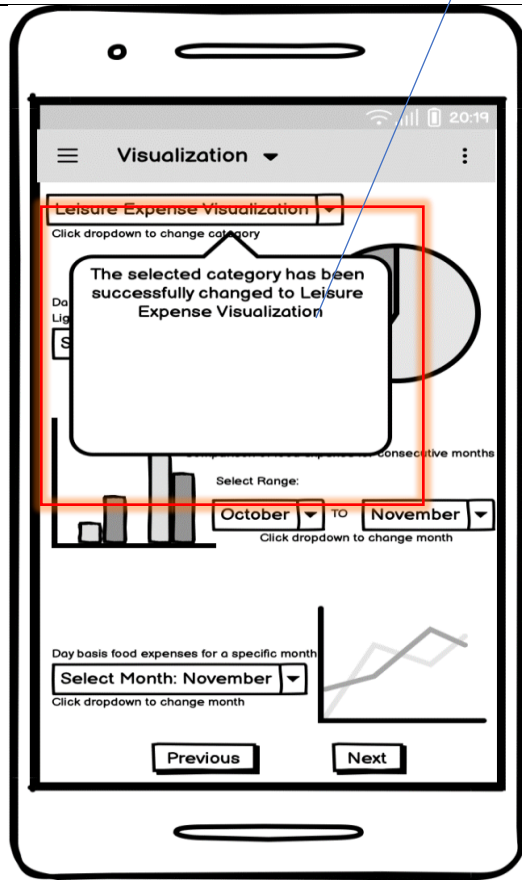**What was changed and why you changed it the way you did:**

We have changed the placeholder for the expense category to "Click to select category" since the user might be confused with the selection choice. Initially, it was one of the options from the list available which will not give a clear idea for the users. Now, users will see this option and clicks on the dropdown to select the expense category. We have also added a button with the name "Show visualizations" which tells users to click on it to proceed to the next steps or to view the visualizations. We have made this change because, it gives an idea to users to proceed to next steps which was not there in our initial prototype.

Step 2 from use-case___9_____ [New]
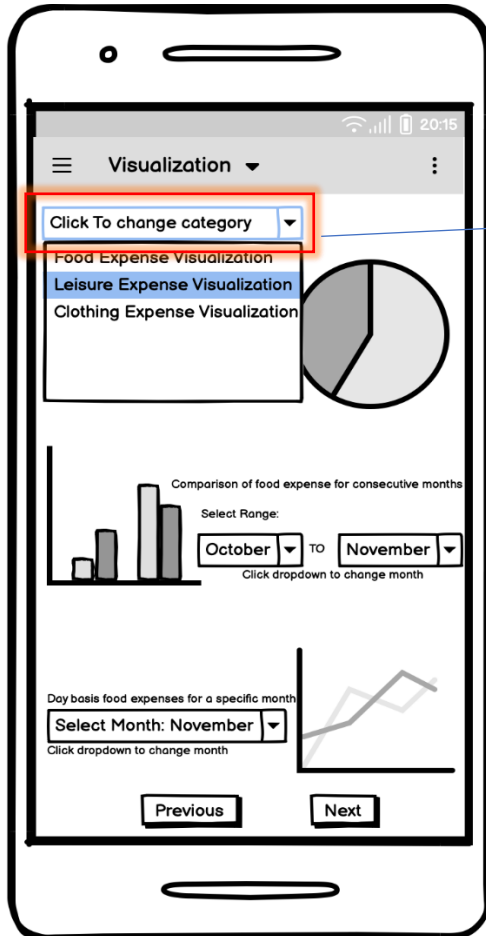
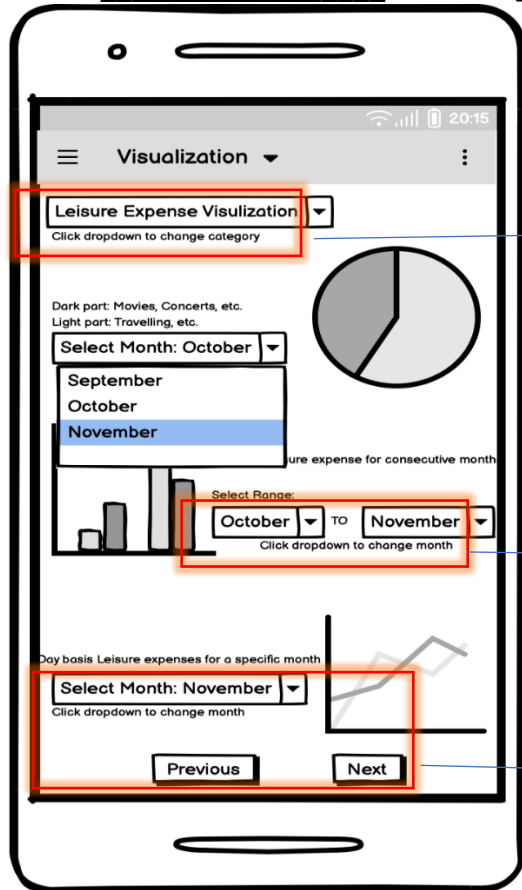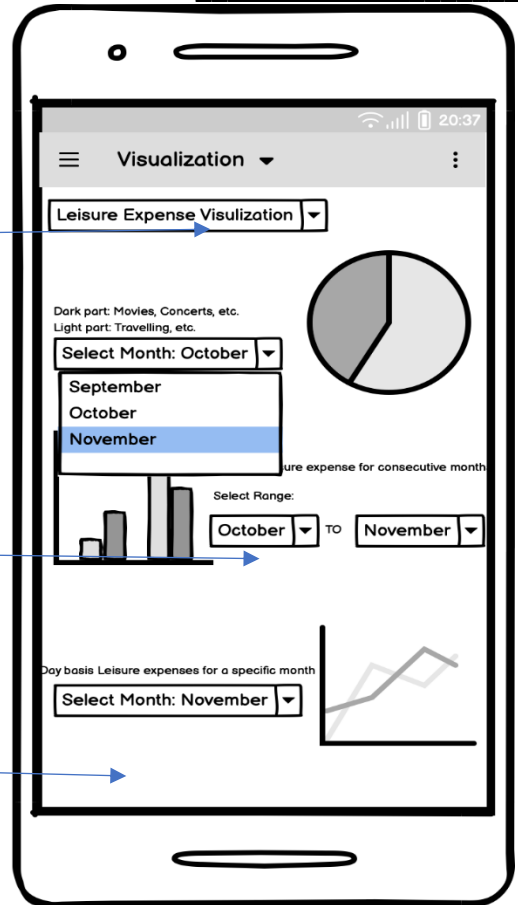**Step 2 from use-case_____7_____ [Old]**
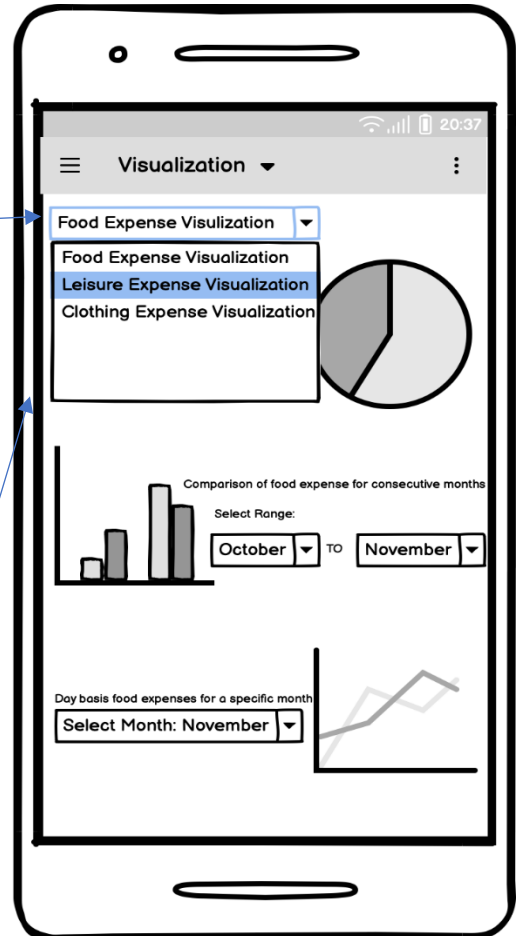
What was changed and why you changed it the way you did:

For this step, we have added a place holder with the name "Click to change category" which tells user to click from the dropdown option to change the category of the expense. We have added this because, it gives user a clear idea of what has to be done to change the category of the expense. We have added a dialog box which tells user the result of the selection choice for expense category. In the old prototype, we did not have the dialog box which will not give the user a confirmation of the selection category so that user can proceed to the next steps.

Step 3 from ___ 10, 16 & 17 _____ use-case [New]   **Step 3 from use-case___ 8, 9, 10 & 11 _____ [Old]**

Left screen (20:15):

≡ Visualization ▾ ⋮

Leisure Expense Visulization ▾

Click dropdown to change category

Dark part: Movies, Concerts, etc.
Light part: Travelling, etc.

Select Month: November ▾

Click dropdown to change month

Comparison of Leisure expense for consecutive month

Select Range:

October ▾ TO November ▾

September
October
November

September
October
November

Day basis Leisure expenses for a specific month

Select Month: November ▾

Click dropdown to change month

Previous   Next

Right screen (20:37):

≡ Visualization ▾ ⋮

Leisure Expense Visulization ▾

Dark part: Movies, Concerts, etc.
Light part: Travelling, etc.

Select Month: November ▾

Comparison of Leisure expense for consecutive month

Select Range:

October ▾ TO November ▾

September
October
November

September
October
November

Day basis Leisure expenses for a specific month

Select Month: November ▾

What was changed and why you changed it the way you did:

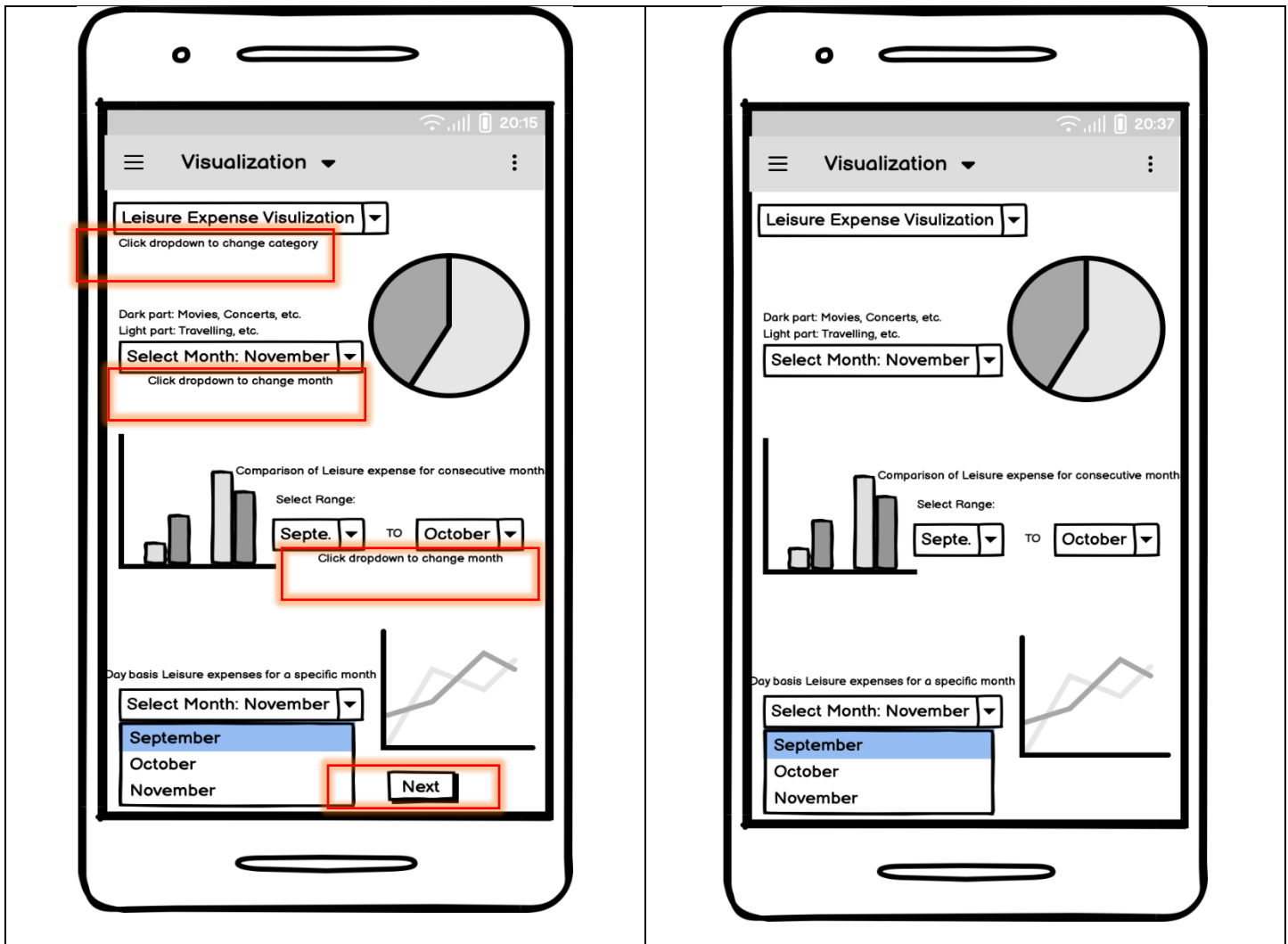We also added a short description of what action needs to be done i.e., "Click dropdown to change category" and "Click dropdown to change month" which tells user to click from the dropdown menu to change the month. We have made this change to give user a better understanding of what needs to be done to change month. Finally, we have added "Previous" and "Next" buttons. We have added these because if the user wants to proceed to next steps once the details are all have been entered, user can click on the "Next" button. But if the user needs to edit the details, it can be done by clicking on the "Previous" button to go the previous page and edit the details. By this way, we are giving users an option to both confirm or edit the details as per the requirements of the user.

References

[1] Balsamiq. Rapid, effective and fun wireframing software. *Balsamiq.com*. Retrieved December 1, 2022 from https://balsamiq.com/