20CE 504L Programming Skills Development-II Laboratory (2022-23 Sem-I)

SYNOPSIS FORMAT FOR MINI-PROJECT

1. Group Member Roll No and C no. Name

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2. Problem Statement

Building a Personal Budget application to track the customer's expenses.

3. Technology Selected – Android

4. Keywords.

- Customer details database
- Daily, Weekly and Monthly Analytics
- Budget distribution
- Savings of Customer
- Track expenditure on Food/Transport/Education/other, etc

5. Abstract(150 words approx.)

We aim to create an application that focuses on keeping record and analyse the expenditure of the client. In our application customers can set a budget for his month and after daily entry of expenses, he can track the outlay of money over the month. He can check that spending week-wise or monthly manner too. He can check if he had any savings over the past months.

6. Module wise Scope.

Initially we have a Login/Registration page where he/she needs to enter personal details. Once registered the customer can set a budget for a month as per his convenience.
Over the month he can add all the expense details like how much he spends over food, transport, apparel, education, house, etc This data is saved for the customer which also gives him analytics of where his maximum expenditure is.
The application also records history of the customer i.e. past months details in case.

7. Technological features covered.

- Firebase Database
- Splash screen
- Android Intent
- Recycler View
- Image View
- Scroll View
- Card View
- Progress Bar
- Toolbar
- Joda library for Date and time

8. Conclusion

We have presented an application using the technologies we have learned and explored to save and extract data from the database as per client's requirements.

9. References

- https://proandroiddev.com/splash-screen-in-android-3bd9552b92a5
- https://www.digitalocean.com/community/tutorials/android-recyclerview-android-cardview-example-tutorial
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- https://www.digitalocean.com/community/tutorials/android-progressbar-example
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