

CASH CONTROL

Control your cash

29-04-2019

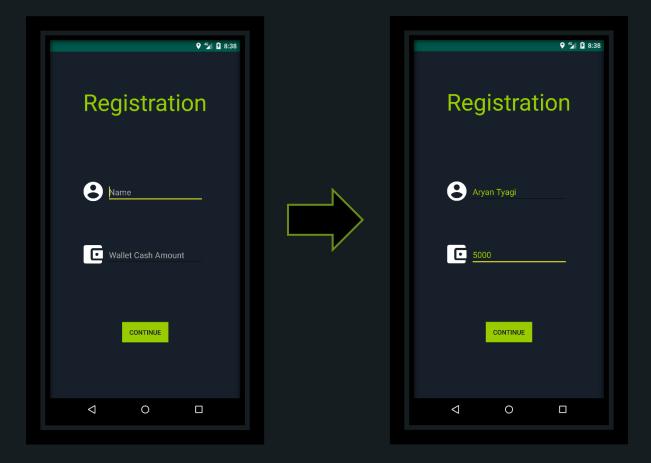
An app that helps you in keeping track of your expenses by storing your transactions with date and time categorically and predicting your next purchase in each category using Machine Learning.

Team:

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How Cash Control Works

1. First register with your name and your current wallet balance



Note: These settings can also be changed later in the settings.

2. Then log into the app how much you spent in FOOD, TRAVEL or OTHERS categories. You can use the seek bar or enter manually the amount you spent.



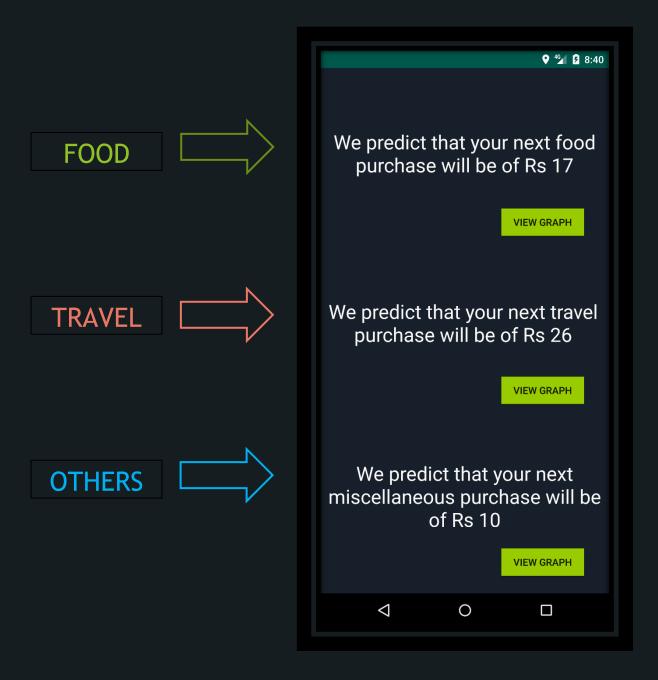


3. Then press the history button to see the history of your cash transactions with date and time stamp. You can delete any entry you want to.

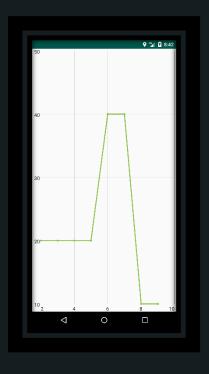




4. Then press the button to open the prediction section of the app. Here you will get prediction of your next purchase in each category. Our model gets more accurate the more you use our app. If the data is not enough it will tell you that "We cannot predict your next purchase".



5. Press the button to see the graph of your expenses in any category.



FOOD

TRAVEL



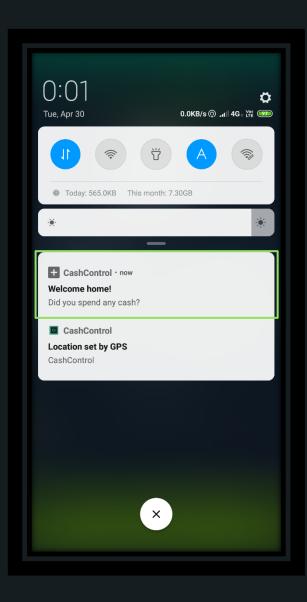
OTHERS

6. Cash Control also has Geolocation fencing which creates a virtual fence around your house so that if you happen to leave your house and come back later, the moment you enter your house, you will be reminded by a notification to log any cash you might have spent while you were out.

So, turn on your GPS and geofencing will become active. Now the next time you leave and return home, you will get a notification like in below screenshot.







Future Updates

> Improved prediction model



> User defined categories



➤ Higher than usual expenditure alert



> Cross platform wearOS support



Further description of the project

The project is open sourced and the whole source code can be found on my GitHub profile. My username is Glitch101.

Click on this link to see the source code.

https://github.com/Glitch101/CashControl

Technologies Used:

- The project was developed in Android Studio using Java and XML.
- It utilises SQLite database to store user infoand transaction history.
- ➤ It uses linear regression analysis for prediction in the Machine Learning model.
- Library used for drawing graph: graphView http://www.android-graphview.org/