

PocketSaver



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Group 12

About PocketSaver

- An easily accessible personal financing tool engineered to keep track of everyday expenses.
 - Keep track of all purchases, big or small
 - Easier for users to see how much they are spending daily, monthly, etc..
- We used an online resource found on Github : CoCoin
 - Application that allowed users to input their purchases and calculate their total
- The goal was to create an application in both an iOS and Android platform, which was user friendly
- Used Visual Studio Community 2017, languages: C# and XAML
- Target audience 12 years and over

Features

- Entering transactions with detailed descriptions
- Entering monthly budgets
- Viewing current month's transaction total
- Remaining budget for the current month
- Allows you to change your budget at any given time
- Editing/deleting transactions
- Offered in both Android and iOS
- Target Android OS is 7.0 and iOS 9

Scheme & Database Used

- We follow the Model-View-ViewModel Scheme

- Model

- Conducts API calls to database
 - Stores non-volatile variables
 - Models return object of database

- View

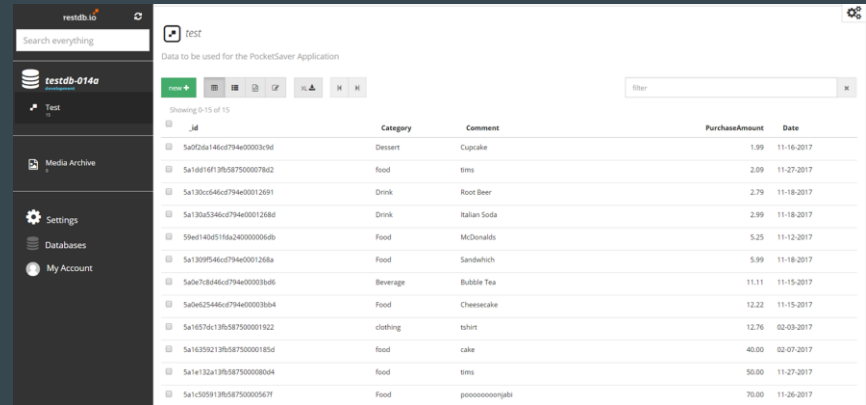
- Contains both a C# and XAML file
 - Displays to UI

- ViewModel

- Handles bulk of calculations for application
 - Accesses Model to retrieve information from database
 - Sends final calculations to View

- Database

- Used restdb.io, a free online database
 - Restdb.io allows the use of a REST client to make API calls

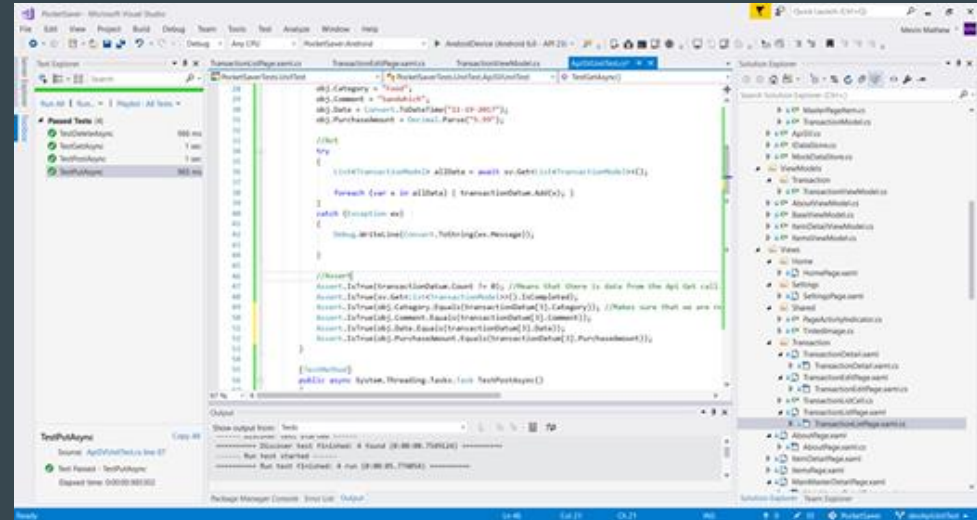


The screenshot shows the restdb.io web interface. On the left is a dark sidebar with navigation links: 'restdb.io', 'testdb-014a', 'Test', 'Media Archive', 'Settings', 'Databases', and 'My Account'. The main area displays a table titled 'Data to be used for the PocketSaver Application'. The table has columns for 'id', 'Category', 'Comment', 'PurchaseAmount', and 'Date'. It shows 15 rows of data, with the first 10 visible. A search bar and filter options are at the top of the table area.

id	Category	Comment	PurchaseAmount	Date
5a02da146cd794e00003c9d	Dessert	Cupcake	1.99	11-16-2017
5a16d10f13f587500007862	food	tims	2.09	11-27-2017
5a130c546cd794e00012691	Drink	Root Beer	2.79	11-18-2017
5a130c5346cd794e0001268d	Drink	Italian Soda	2.99	11-18-2017
59ed140d51f6a240000006db	Food	McDonalds	5.25	11-12-2017
5a1309546cd794e0001268a	Food	Sandwich	5.99	11-18-2017
5a0a7b8d46cd794e00003b06	Beverage	Bubble Tea	11.11	11-15-2017
5a0e425446cd794e00003b04	Food	Cheesecake	12.22	11-15-2017
5a1657ac13f587500001922	clothing	tshirt	12.76	02-03-2017
5a16395213f58750000185d	food	cake	40.00	02-07-2017
5a1e132a13f5875000080e4	food	tims	50.00	11-27-2017
5a1c305913f58750000567f	Food	poosooooojab	70.00	11-26-2017

Testing

- Unit Testing was done through Microsoft Visual Studio Unit Testing Framework
- Testing done strictly on the ApiSV
 - Api requests to the database
 - Compared returned objects to objects within the database to ensure correctness



Qualities

- User Friendly
 - Minimal number of pages
- Smooth UI
 - No delay
- Easy to Navigate
- No Delay in Updating Database
- Protects Data Integrity
- Portability
 - Available in both iOS and Android
- Robustness
 - Application will not take letters when number are required.

User Survey Results

Participants Feedback:

- Should Display current Budget on Settings page
- Filter Transaction Summary

Please provide a rating from 1 to 5 for the following statements (1 - Strongly Disagree, 2 - Disagree, 3 - Neutral, 4 - Agree, 5 - Strongly Agree) : The application is easy to navigate and easy to use.

1. The colour scheme is visually appealing.
2. Entering/modifying/deleting transactions are reflected on the total amount spent with little to no delay
3. Entering/modifying/deleting transactions are reflected on the transaction page with little to no delay
4. Entering/modifying/deleting transactions are reflected on the graph with little to no delay
5. The application runs smoothly and with minimal wait/loading time.
6. I was comfortable with entering all information that the application asked me to.
7. Please provide detailed answers for the following questions (point-form is acceptable)
8. Does the application run smoothly on your device? Please indicate the device you used.
9. Were you offended by anything in this game? Please provide details
10. Is there anything you feel is missing or could be improved in this application?

DEMO

Conclusion

- Improved Features
 - UI
 - Ease of use
 - Flow navigation
 - English language
 - Portability
- Things to improve on:
 - Layout of the HomePage
 - More features to customize on the SettingsPage

Questions