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Stacky

Description

StackOverflow.com is a website where users may post questions or hurdles they face during programming. Once the question is posted, the other users in the community come ahead an give answers to the question, hence building a community.

Problem:
 There are times where a person might need to track a particular question in he/she is expecting an answer. This gets tedious when the person may need to visit the question again and again to check if there is a valid answer.

Solution:
Design an application in which the user can add the question he wants to track using the question id. The app will then periodically check to see if there is any new answer posted on the question. If so, it will raise a notification to the user. The user can open the app to see that a new answer is posted and could click it to view the details of the answer.

Intended User

This app is intended for the developers who want to track some questions over at stackoverflow.com
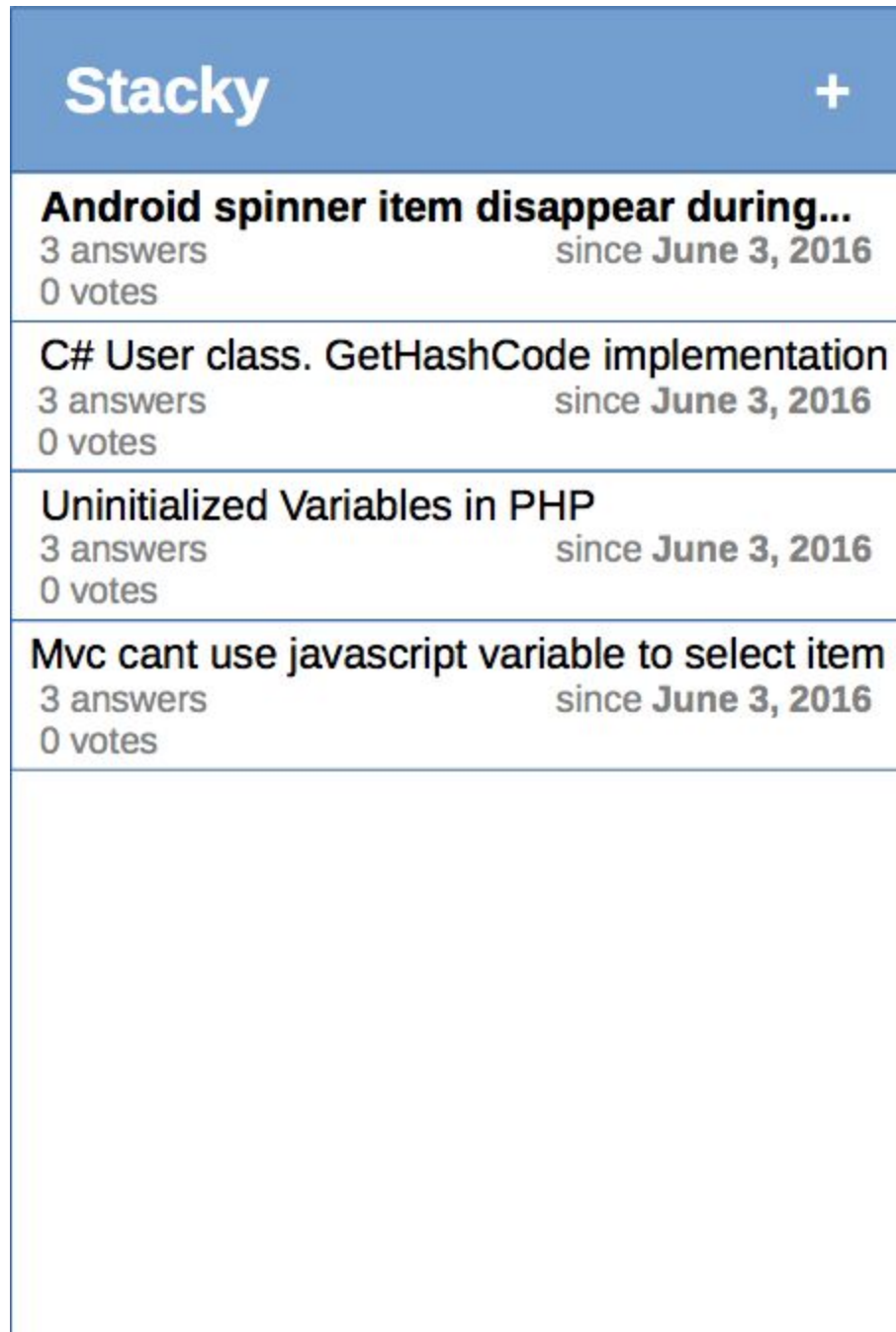
Features

- Saves questions that need to be tracked.
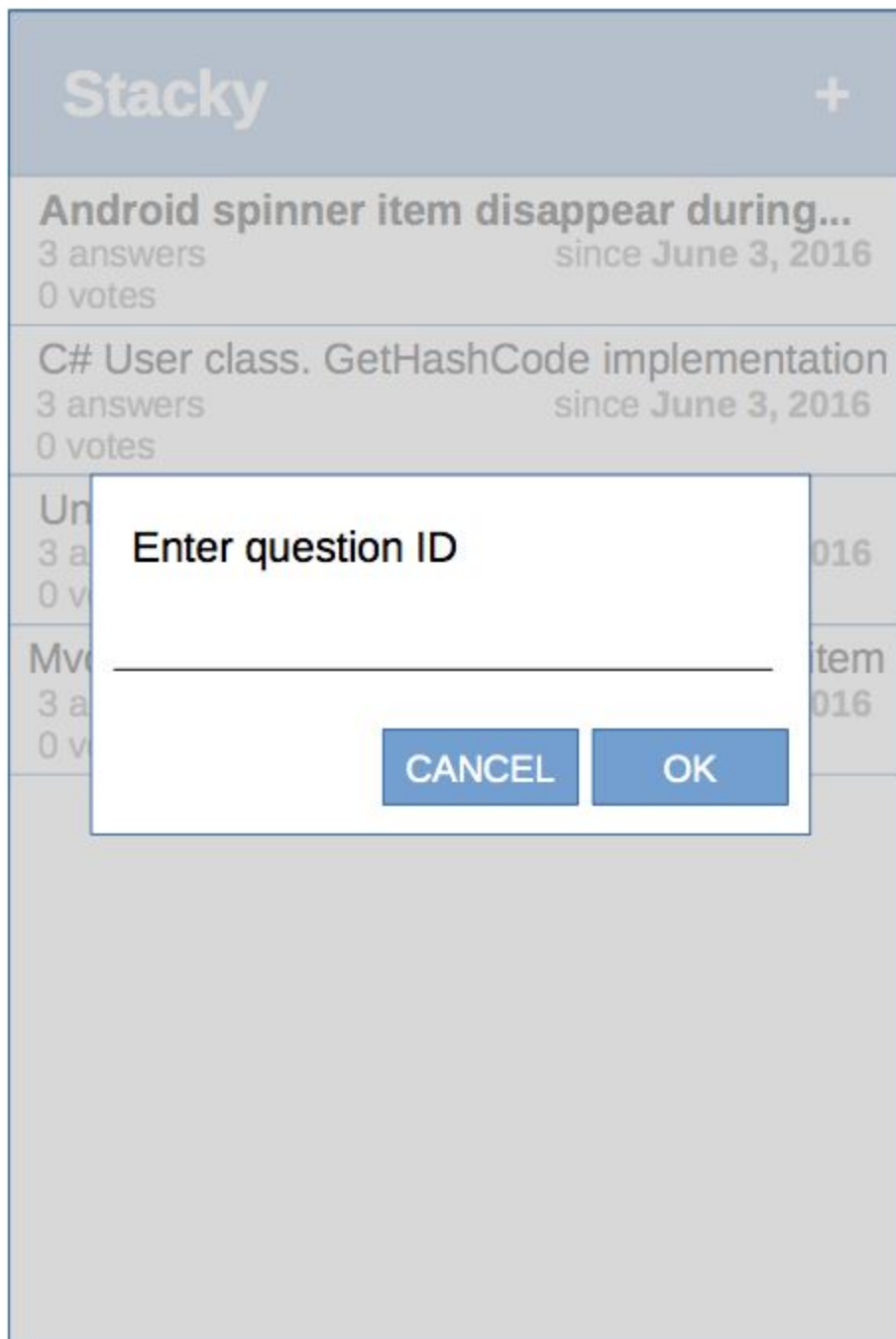- Notifies user whenever there is an update to the questions posted

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1

The home screen for the application that shows the questions that we are tracking. If there are updates on the question that the user has not check, it will be marked as bold.

Screen 2

Option to enter the question ID, in order to start tracking a new question

Screen 3

✓	🗑

Android spinner item disappear during...
3 answers   since **June 3, 2016**
0 votes

C# User class. GetHashCode implementation
3 answers   since **June 3, 2016**
0 votes

Uninitialized Variables in PHP
3 answers   since **June 3, 2016**
0 votes

Mvc cant use javascript variable to select item
3 answers   since **June 3, 2016**
0 votes

Option to delete/untrack the questions

Screen 4

← Answers

Use URI builder in Android or create URL with variables.

👍 **117**
asked **June 3, 2016**
answered

👤 Hichris123
6631

Answers

👤 Daniel W. 🎓 117   0
answered **June 3, 2016**

👤 Brad Pitt 🎓 150   153
answered **June 3, 2016**

👤 Johnny D. 🎓1990   249
answered **June 3, 2016**   ✓

The details screen, showing the answers for the questions followed. Clicking on a particular answer redirects to a browser showing the details of the answer given. Each item shows the user icon, name and the reputation he holds. Also it shows the score of the answer and a tick to indicate it as accepted.

Screen 5

A master detailed layout for the tablet screens.

Screen 6: Widget

Android spinner item disappear during...
3 answers ✓

C# User class. GetHashCode implementation
3 answers

Uninitialized Variables in PHP
3 answers

Mvc cant use javascript variable to select item
3 answers

The layout of the widget showing the recently tracked questions.

Key Considerations

How will your app handle data persistence?

A new content provider will hold the questions to be tracked along with their related answers.

Describe any corner cases in the UX.

A notification on the new activity on the tracked question will lead to the detail screen of the question.

Describe any libraries you'll be using and share your reasoning for including them.

Volley : In order to display images using NetworkImageView
https://github.com/hdodenhof/CircleImageView : In order to display circular images
Material Design Library: To materialize the application

Describe how you will implement Google Play Services.

Stacky will contain the following Google Play Services:

Google Analytics : In order to track the user experience and engagement.
Google Mobile Ads: In order to monetize the application

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

Subtasks:
- Add required libraries to the project
- Create Stack App to get the API key necessary to call REST APIs.
- Design database for the local storage

Task 2: Implement UI for Each Activity and Fragment

- Build UI for the list of questions
- Build UI for the list of answers
- Build master-detail layout on the tablet screen
- Build widget UI

Task 3: Database and UI integration

- Create Content Provider to access the databases
- Link the Content Provider with the UI with the help of loaders

Task 4: Notify user of updates.

- Implement SyncAdapter to refresh the question updates
- Use notification manager to raise notifications and handle pending intents.

Task 5: Implement Google Play Services

- Implement Google Mobile Ad service in order to show ads
- Configure Google Analytics to record the actions on the user to access effective metrics.