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Kiipa

Description

Kiipa is an app that help grocery store to keep and track stock record. The app will help store sales person or store manager to track stock item level, stock expiration, sales transaction, credit customers or stock issuance records.

Intended User

Grocery traders, Store keepers

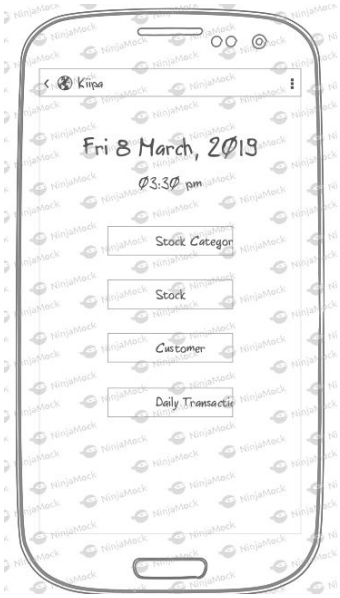
Features

List the main features of your app. For example:

- Add/Update stock categories
- Add/Update stock items and stock measures
- Save credit customers detail
- Add/remove item to cart
- Make sales/checkout or issuance
- Keep transaction records
- Monitor and notify user on low stock level/expiration
- Display five (5) most recent transactions (home screen widget)
- Display Daily transaction summary

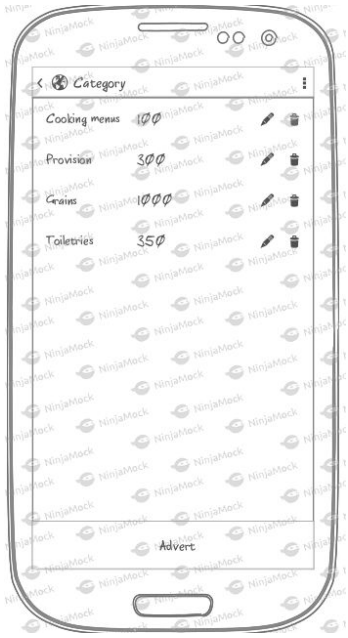
User Interface Mocks

Screen 1



Application dashboard (Main UI)

Screen 2



Category List UI

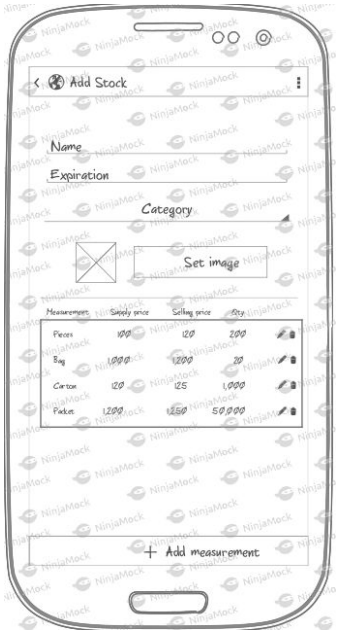
Screen 3

Dialog UI for adding new stock category

Screen 4

Settings UI

Screen 5

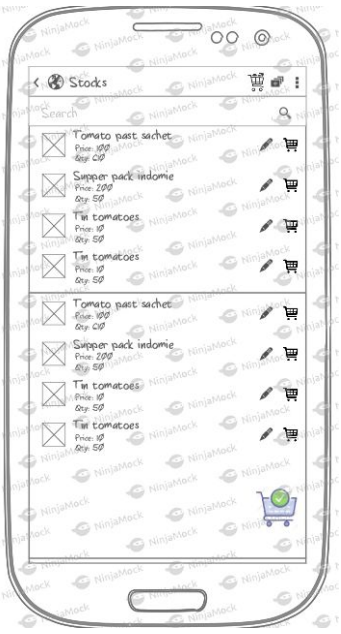


UI for adding new Stock item

Screen 6

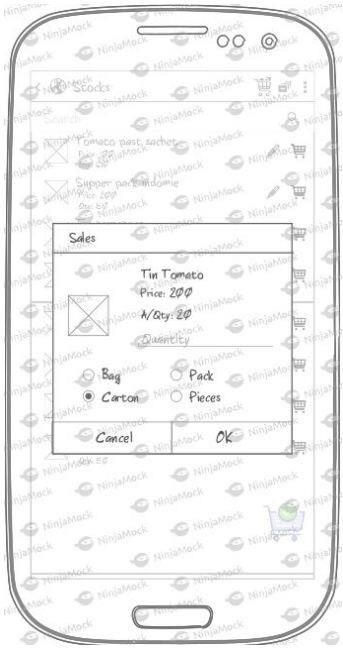
UI for adding stock measuring parameters (Pieces, Bag, Carton, Serchet, Packet etc) and quantities

Screen 7



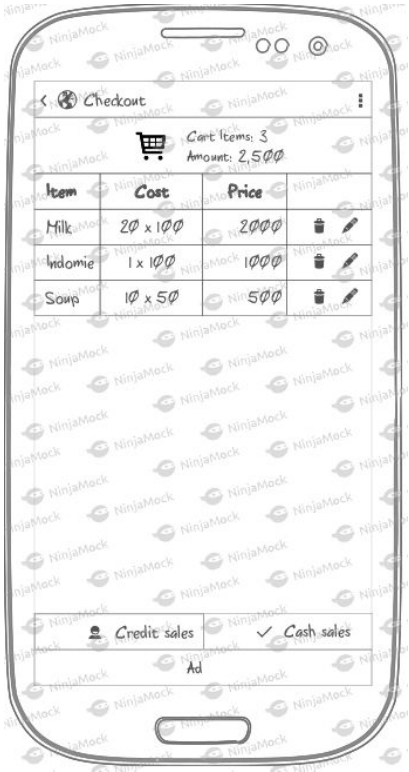
Stock item list UI (for stock selection)

Screen 8



Stock parameter input & selection UI (on selecting a stock this UI is presented for the user to select measures and quantities)

Screen 9

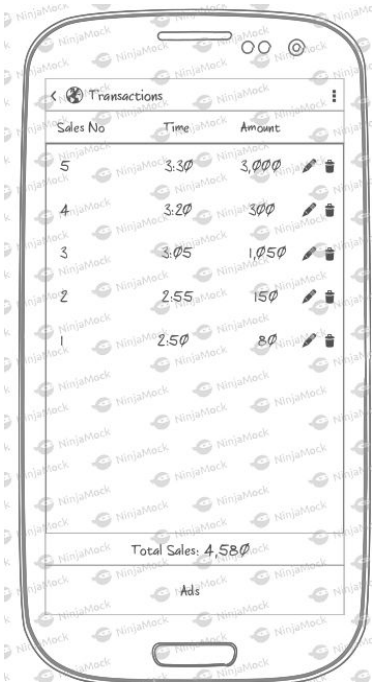


Checkout screen for selling stock(credit/paid customer)

Screen 10

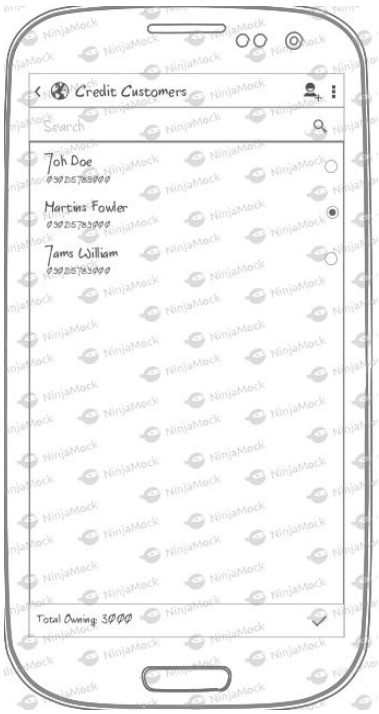
Checkout screen for store keeper(stock issue screen)

Screen 11



Daily Transaction list

Screen 12



Customer list (UI that list credit customers)

Key Considerations

How will your app handle data persistence?

Application will use Sqlite/Room for storing data

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

- ButterKnife for view binding convenience
- Room for easy implementation of database operation

Describe how you will implement Google Play Services or other external services.

Admob: will display Banner ad

Next Steps: Required Tasks

Task 1: Project Setup

Create and do project configuration

Subtasks

- Create android project
- Configure libraries

Task 2: Implement UI for Each Activity and Fragment

Build all necessary User interface
Subtasks

- Build UI for MainActivity
- Build UI for StockCategoryActivity (Listing, Adding, editing)
- Build UI for SockItemActivity (Listing, Adding, editing)
- Build UI for CustomerActivity (Listing, Adding, editing)
- Build UI for SalesCheckoutActivity
- Build UI for DailySalesTransactionActivity (Listing, editing)
- Build UI for app Settings preference

Task 3: Database implementation

Implement persistence logic

Subtasks

- Create database
- Create tables (category, measure, stock, customer,transactionlog)
- Create models for the tables
- Implement db operations using Room
- Write test

Task 4: business logic implementation

Implement business logic for performing db operations (insert/update/delete)

Subtask

- Create class/logic for fetching, adding, update and delete stock category
- Create class/logic for fetching, adding, update and delete stock item
- Create class/logic for fetching, adding, update and delete customer
- Create class/logic for fetching transactions
- Implement application preference settings logic
- Implement cart logic for sales
- Implement checkout logic for sales
- Write test

Task 5: Wire UI to business logics

Connecting the UI actions to the business logic and make necessary input data validations

Subtasks:

- Wire StockCategoryActivity to it business logic
- Wire SockItemActivity to it business logic
- Wire CustomerActivity to it business logic
- Wire SalesCheckoutActivity to it business logic
- Wire DailySalesTransactionActivity to it business logic
- Write test

Task 6: AppBar implementation

Implement AppBar for the application
Subtasks:

- Create AppBar for the app
- Add Icons for Cart
- Implement FAB for checkout action
- Implement logic for adding item to cart
- Implement logic for making sales transaction i.e checkout

Task 7: App home screen widget implementation

Implement home screen widget for listing five(5) most recent sales/issued stock
Subtasks:

- Create StockWidget xml file
- Implement the StockWidget service

Task 8: Google Admob implementation

Implement Google Admob
Subtasks:

- Add play store dependencies
- Do adMob configurations
- Give network permission
- Implement Banner ad

Task 9: Implement JobScheduler service

Implement service for monitoring stock level and expiration notification
Subtasks:

- Implement JobScheduler for monitoring stock level & expiration
- Implement notification logics

Submission Instructions

- After you've completed all the sections, download this document as a PDF [File → Download as PDF]
    - Make sure the PDF is named "**Capstone_Stage1.pdf**"
- Submit the PDF as a zip or in a GitHub project repo using the project submission portal

If using GitHub:

- Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
- Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"