How to Use this Template

- Create a new document, and copy and paste the text from this template into your new document [Select All → Copy → Paste into new document]
- 2. Name your document file: "Capstone_Stage1"
- 3. Replace the text in green

Description

Intended User

Features

User Interface Mocks

Screen 1

Screen 2

Key Considerations

How will your app handle data persistence?

Describe any corner cases in the UX.

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

Describe how you will implement Google Play Services.

Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Implement UI for Each Activity and Fragment

Task 3: Your Next Task

Task 4: Your Next Task

Task 5: Your Next Task

GitHub Username: tryn2hard

Pocket Tally

Description

Pocket Tally is an easy intuitive way to keep track of your cricket game score. Best part is it's free!

Intended User

Avid darts players, bar-goers, and everyday people who want to have a good time playing darts.

Features

- 2 to 4 players in a game
- Standard or Cut-Throat game type
- Control the number of rounds in a game
- Create an online profile to keep track of game history

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 Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.

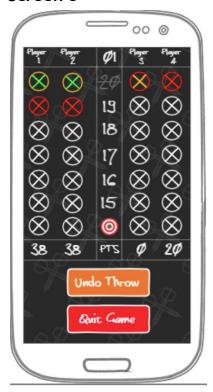
Screen 1



Screen 2



Screen 3



Screen 4



Screen 5



Screen 6



Widget



Key Considerations

How will your app handle data persistence?

The app will use preferences to store the user's settings. For each game of darts, the app will use Room to store the game data until the game is finished or ended.

Describe any edge or corner cases in the UX.

In the case of the user leaving a current game, View Model will be used to make sure that the user can return to the game without the loss of any progress.

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

Android Studio version 3.1

Gradle version 4.7

Room -- to store the relevant game data

```
implementation "android.arch.persistence.room:runtime:$room_version"
```

ButterKnife -- to bindviews

```
implementation 'com.jakewharton:butterknife:8.8.1'
```

ViewModel -- to help with data persistence

```
implementation "android.arch.lifecycle:viewmodel:$lifecycle_version"
```

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

```
Google Mobile Ads -- to have ads
```

```
Com.google.android.gms:play-services-ads:15.0.1
```

```
Google Analytics -- to have reports
```

```
Com.google.android.gms:play-services-analytics:15.0.2
```

Google Firebase -- to store game history

```
implementation 'com.google.firebase:firebase-core:16.0.0'
```

Next Steps: Required Tasks

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

Task 1: Project Setup

- Create a github repo for the project and perform an init commit from AS
- Add all the necessary dependencies that will be used
- Configure the database
- Develop all logic for app in Java

Task 2: Implement UI for Each Activity and Fragment

- Build UI for the Starting Activity
 - Starting Activity will host three different fragments(Start Screen, Settings Screen, and How-to-Play)
- Build UI for the Dart Game Activity
 - Use fragments to change the number of players based on the user's settings

Task 3: Connect the database to the Activity

Use ViewModel and loaders to read/write to the database

Task 4: Implement Google Mobile Ads

Add an ad display to the Dart Game

Task 5: Create a build variant for free and paid

Create layout to remove the adds from the Dart Game

Task 6: Support Accessibility

- Use vibrant colors to visually inform the user of any changes when marking dart tallies
- Leave enough space for textviews to be adjusted with larger text

Task 7: Support RTL

- Add RTL to the manifest
- Define padding in dimens for RTL using paddingStart and paddingEnd
- Adjust player names and setting selection spinners for RTL

Task 8: Add Firebase

- Create user login activity through email or google
- Utilize services to store and request user game history from Firebase

Task 9: Add widget to display user game data

- Program the widget to display the current game score and all the tallies that have been marked
- When a user clicks on the widget; the app should open to the current game

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"