

How to Use this Template

1. Make a copy [File → Make a copy...]
2. Rename this file: “**Capstone_Stage1**”
3. Replace the text in green

Submission Instructions

1. After you’ve completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it “**Capstone Project**”
3. Add this document to your repo. Make sure it’s named “**Capstone_Stage1.pdf**”

[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: <https://github.com/ArnalShoorukov>

Prayer Time App

Description

Prayer Time App is the ultimate tool for getting accurate prayer times and Qibla direction, no matter where you are. Its modern and simple to use interface offers you immense power.

Intended User

Prayer Time App is a must have companion for all Muslims over the world. 100% free and without internet.

Features

Prayer Time App comes to all Muslims with big new features that is needed all the day to all Muslims around the world like :

Prayer Times:

- ★ Prayer times for 200.000+ cities in 200+ Countries: Fajr, Sunrise, Dhuhr, Asr, Maghrib, Isha
- ★ Automatic location detection using Network or GPS, or finding the location manually by searching (Without Internet)
- ★ Next prayer time is highlighted and show time remaining for next prayer.
- ★ A Compass to show the Qibla direction.
- ★ Automatic detection of the best Islamic prayer calculation method currently applicable to you.
- ★ Choice your Madhab / Juristic Method (Hanafi, Shafi, Maliki or Hanbali)

Prayer Time Settings:

- ★ Changing language of the App
- ★ Changing default settings of prayer calculation method and Juristic Method
- ★ Ability to adjust prayer times manually.
- ★ Turn On/Off sound for each prayer
- ★ Ability to change alarm mode and to select notification tone (Athan) from Makkah, Madina, Al-aqsa, Egypt and more.
- ★ 12/24-hour format

Remembrance and Supplication

Prayer Time App is an application consisting of Beneficial Islamic Duas divided in 25 major Supplication (duas) and Remembrance (azkar) categories. It will help Muslims of all ages including Muslim kids and adults to know, learn, memorize, and recite different supplications for daily life and other occasions.

- ★ 25 Duas Categories meant for achievement in different instances are available:

Morning/Evening, Restroom, Prayer, 40 Rabbanas, Eat/Drink, Dressing, Travelling, Family, Blessings, Protection, Forgiveness, Fasting/Ramadan, Hajj, Funeral/Grave, Rain, Random

★ the app can be used in many languages : Arabic, English, Russian, Turkish.

★ Supports phones and tablets

User Interface Mocks

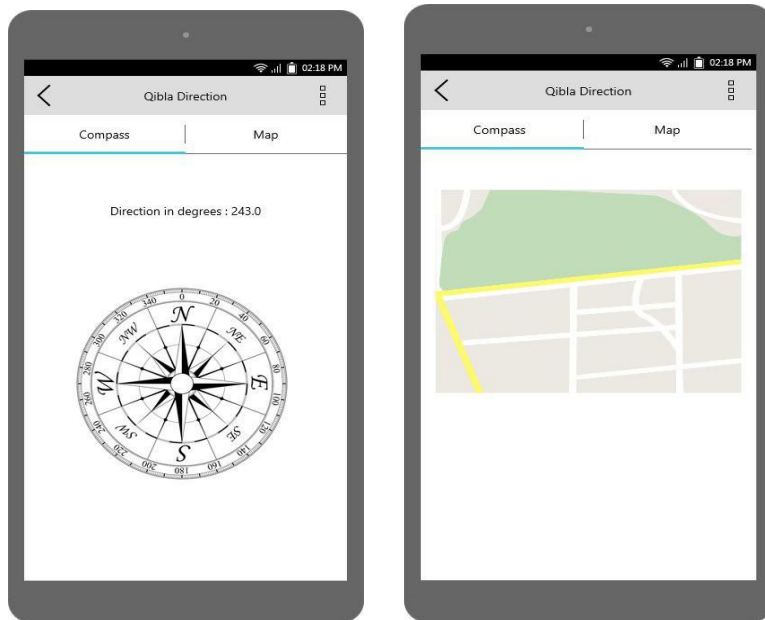
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



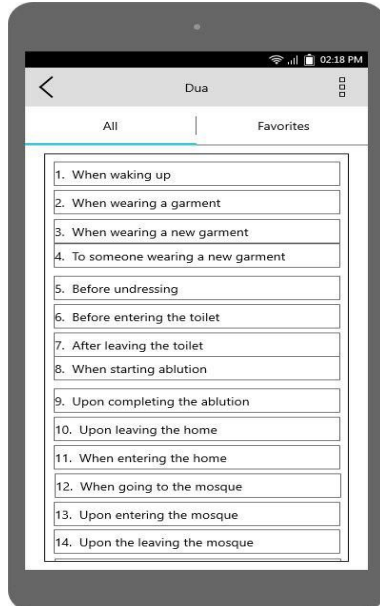
This is my first screen, where users can find most important information for the current day. Like a current prayer time remaining, date, location, time table for one day, also notifications settings for each prayer.

Screen 2



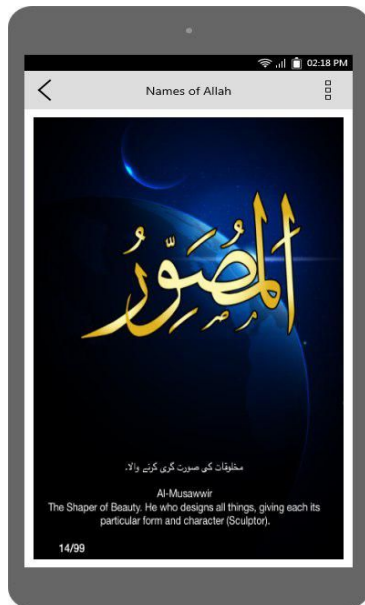
In this screens users can find direction to Qibla, either by using compass or map.

Screen 3



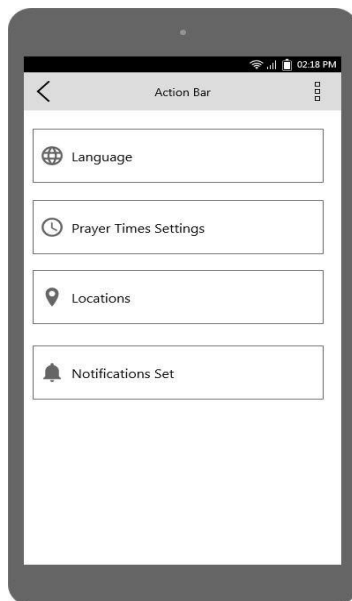
In this screen users can find daily duas which are important for every Muslim.

Screen 4



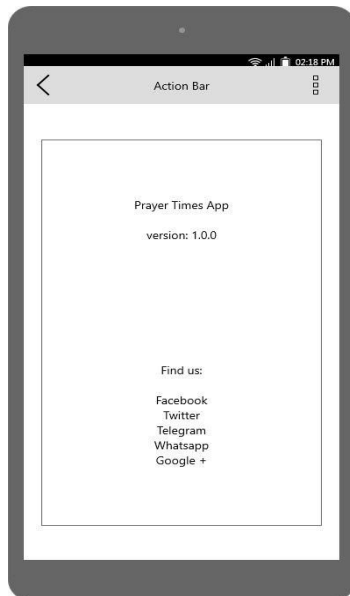
In this screen users can find all 99 Names of Allah which mentioned in Quran and Sunnah of Prophet.

Screen 5



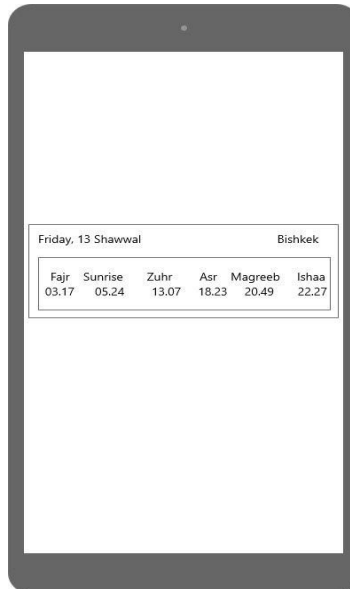
This screen for settings, users may change desired language, Prayer Time Calculation Settings, Locations, and Notifications settings for each prayer.

Screen 6



This screen gives to users all information about us, how to contacts for further advices, complains or any wishes. Also to follow us in social media pages.

Screen 7



Home screen widget for showing daily prayer times.

Key Considerations

How will your app handle data persistence?

I will create new Content Provider for my application and it will handle persistence. Setting and other data done by using shared preferences.

Describe any corner cases in the UX.

Generally this app will be using Material design principles to provide better, user friendly and more attractive user engagement. This app will be build by help of components of android framework like RecyclerView, Coordinator Layout, Navigation Drawer, and etc...
Navigation Drawer is using for quick and easy navigation off app's features.

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

I am going to use for my project prayer times calculation library, which is Islamic Calculation Library (ICLib). This library contains calculations/algorithms needed specifically by muslims and people in muslim countries, such as prayer times, qibla direction, and Hijri conversion.

Describe how you will implement Google Play Services.

Google Analytics: For tracking user engagement on app and do improvement based on those results.

Google AdMob: Monetize app and earn money showing relevant ads in app.

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

First I will create basic setup of project and upload it to github.

List of sub task:

- Create basic project
- Configure all the dependencies

- Create app skeleton with navigation drawer
- Upload to GitHub and start working on project

Task 2: Home Screen

- Create main view
- Create main view with sample data
- Implement ICLib library
- Set location
- Show prayer times

Task 3: Qibla Screen

- Find Qibla using compass
- Find Qibla using map

Task 4: Dua Screen

- Create screen with dua
- Create content provider
- Favorite dua implementation
- App uses Loader to retrieve data and show dua's which favorited by user

Task 5: Names Screen

- Create screen with names
- Play audio by pressing the Name

Task 6: Settings Screen

- Create screen of settings
- app uses an AsyncTask to collect data according to Location and calculation method settings
- Notification settings for each prayer

Task 7: About Screen

- Create screen with our information
- Links for our social media
- Share function

Task 8: Home screen widget

- Create home screen widget
- Daily prayer info show to home screen widget

Task 7: Implement Google Play Services

- Google AdMob integration
- Google Analytics integration

Task 8: Improve Design

- Handle landscape orientation
- Handle for tablet users
- RTL support
- Accessibility support
- Add translations

Task 9: Testing

- Testing on various devices
- Bug fixing

Task 10: Deployment

- Generate signed apk

Add as many tasks as you need to complete your app.

Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"