

# Requirements Document

## *I. Overview*

**Project name:** *CU Prayer Journal App*

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**Client name(s):** *Brian Nester, Keith Holcomb*

### **Project description:**

*Christians are called to pray without ceasing, but it is easy to get distracted and forget. The goal of this project is to create an application that will enrich the user's prayer life. People often break prayer into morning prayer time and "without ceasing" prayer time. Ideally, this application would improve both aspects of prayer.*

### **Technologies that will be used:**

React Native

*Framework the programmers will use to develop a cross platform app.*

*Pros: Open source, technologies aren't split between .net, c#, nuget, etc..., it's just javascript/react. More Popular, better documentation. Hot reload makes testing faster.*

*Cons: Slower than Xamarin since apps aren't compiled, but since big apps like Skype, Facebook, and Uber eats are built with React Native, and these apps clearly have no trouble running, I think our small local app will do just fine.*

*Main languages: Javascript and React*

QR codes

*Other options exist and are worth looking into as progress is made*

SQLite

*Database engine for storing prayer requests. It will just be a local database.*

## *II. Introduction*

Description of the current software, tools, technologies, and / or methods being used to solve the problems the project will address (e.g., the legacy application):

*Many prayer apps already exist. They have varying levels of complexity and each has a slightly different feature set. Some use notifications to remind the user to pray, although they may not remind about specific prayer requests.*

What are the major deficiencies of the current solution (even if it is a non-technical solution)?

*Existing prayer/Bible apps are often bulky and cluttered. Overall, they provide many features that are not necessary while poorly implementing the features that are most desirable. Also, they may not allow the user to add custom times to be reminded about specific requests.*

Who will be using the application? Are there different categories of users and / or roles?

*The target audience would be anyone who desires to improve his or her prayer life and thinks that frequent reminders or prompts from an app would be helpful. Specifically this app's target audience is the Cedarville student body.*

Description of the end products the application will produce (if any):

*The goal for this project is to provide a motivating and engaging prayer resource for individuals who are seeking to spend a more intentional and consistent time in prayer. Though the app is focused on the individual, it should also be developed in a way that encourages uplifting and supporting one another in prayer.*

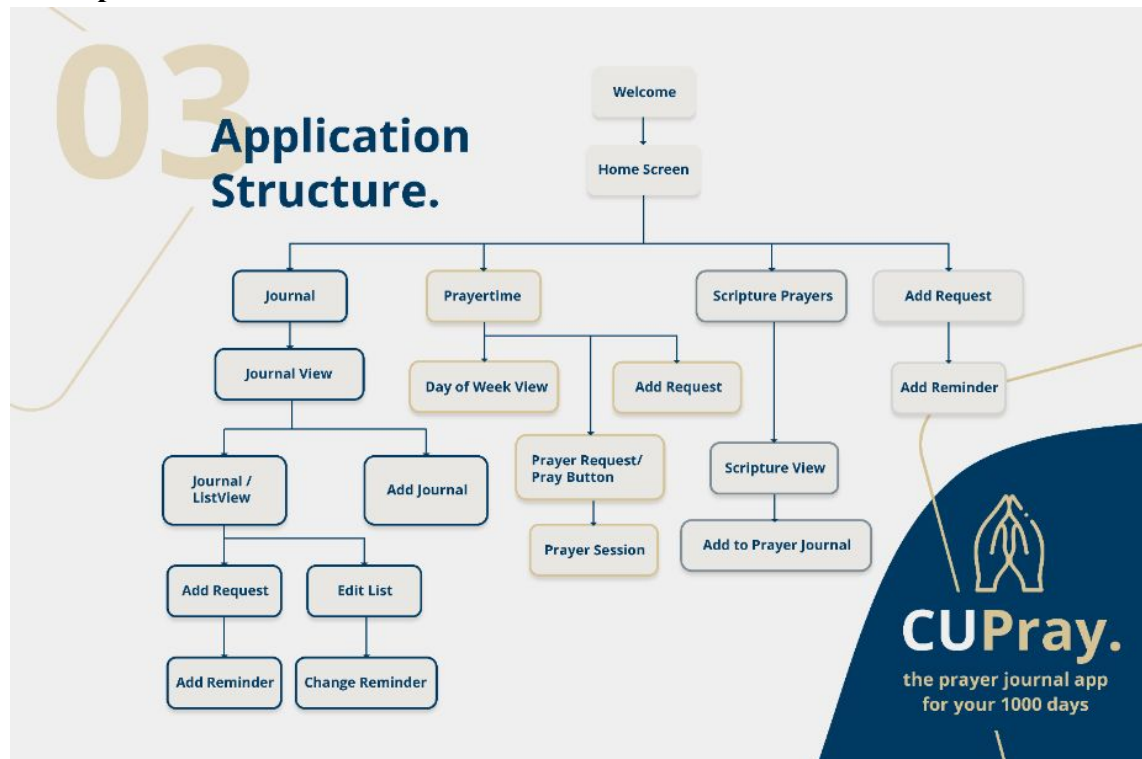
Description of the technological constraints and why they exist, including networking constraints if applicable:

*This will just be a small local app. There are not any major network or computational constraints.*

### ***III. Functional Requirements***

- 1. Create a cross platform app.*
- 2. The app should allow users to create and manage prayer requests*
- 3. User can set the expiration date for prayer requests, after which requests are archived, and removed from the main page*
- 4. Prayer requests periodically send the user reminders. Frequency can be determined by the user*
- 5. Prayer requests can be quickly loaded into the device without network capabilities*
- 6. Prayer requests can be sorted into various categories of "folders" or "journals" (e.g., family, local church, etc.)*
- 7. A prayer request can be marked as "answered", after which it will be archived*
- 8. Expired and answered prayer requests can be viewed in a separate folder*
- 9. The app should be primarily local and should not be dependent on information from the web*
- 10. The app should have a page that displays requests in a way that augments daily prayer time*
- 11. The app should have a page that display various scriptures that the user can pray through*
- 12. Folders/Journals and prayer requests should have various display formats (list, image etc.)*
- 13. This app will not have social networking features*

### A Sample Use Case:



## IV. Security Requirements

Since a core requirement for this app is to avoid connecting to a network or adding a social network feel, the only information we will be accepting extraneously are prayer requests. The database this app will use will be local and not connected to or accessible from the network. As a result, security is not a big concern.

## V. Societal Impact

The goal for this project is to provide a motivating and engaging prayer resource for individuals who are seeking to spend a more intentional and consistent time in prayer. Though the app is focused on the individual, it should also be developed in a way that encourages uplifting and supporting one another in prayer.

## VI. Open Questions

- QR Code capability to read in prayer requests quickly and easily as opposed to some other technology
- Notification design
- Capability to send and share prayer requests
  - Share button which displays a QR code to scan ? :)