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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**"

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GitHub Username: ipaddr (https://github.com/ipaddr)

Rereso Apps

Description

Rereso Apps is android application for registering and recording information about family that just have a new born baby. By using Rereso Apps, any document needed by official goverment in process for publishing a certificate of birth for new born baby will be registered and recorded in Rereso Apps and goverment institution can use Rereso Apps as reference to publish certificate of birth. To publish certificate of birth 3 goverment institution is involved, they are village goverment, sub-districts goverment, districts goverment.

In Indonesia with a lot of rural area, traveling from one place to other place is a difficult thing to be done in process for publishing a certificate birth for new born baby, not only mass transportation is not yet available, but also in process to publish certificate of birth, parent of new born baby should visit 3 of different goverment institution. Moreover in process of visiting those 3 different place, often parent forgot to bring required document at destination institution and they need to back home just to bring it back to destination institution. Rereso Apps aim to register and record those document in the lowest goverment level which is village goverment, so village goverment officer only need to add new info and submit the picture of required document to publish certificate of birth from parent of new born baby to Rereso Apps and later Rereso Apps will sync automatically at three diferent goverment institution.

Intended User

This app is for institution goverment officer such as village, sub-districts and districs officer that have authority to publish certificate of birth.

Features

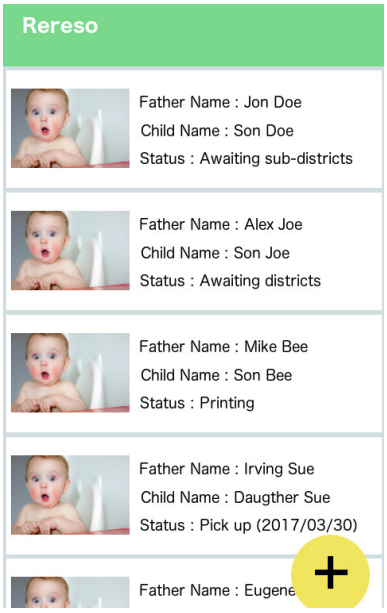
List of the main features of Rereso Apps:

- Save information require to publish certificate of birth
- Take pictures of require document to publish certificate of birth

User Interface Mocks

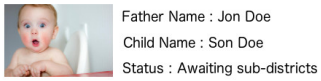
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



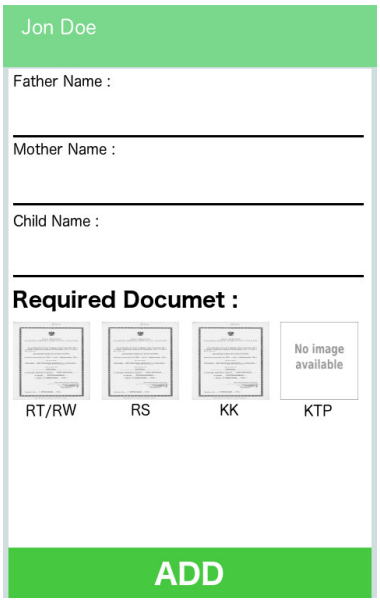
This is main screen of Rereso apps. In the main screen are listed all of record for society that wish to publish a certificate of birth for their child. For each list item, there is picture of the new born baby, name of baby father, name of the baby and status of their application in order to publish certificate of birth at official goverment. This screen will be used by goverment officer of village, sub-districts and district. Three remaining screen will act diffrent according to who have privilage of those screen.

Screen 2



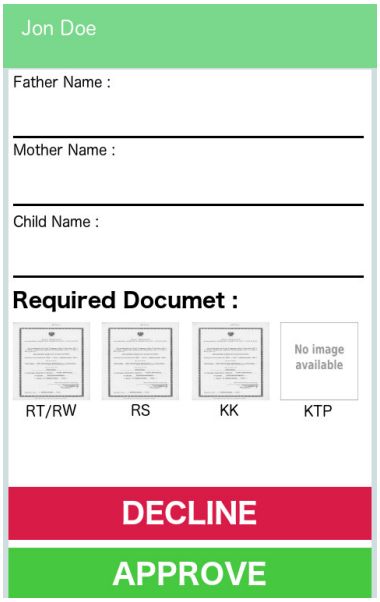
This is an app widget that will shown info of available family application for certifacte of birth with the most old data and not yet picked up. User will be able to scroll through app widget list in at home screen, so update information will be easly distribute to all society

Screen 3



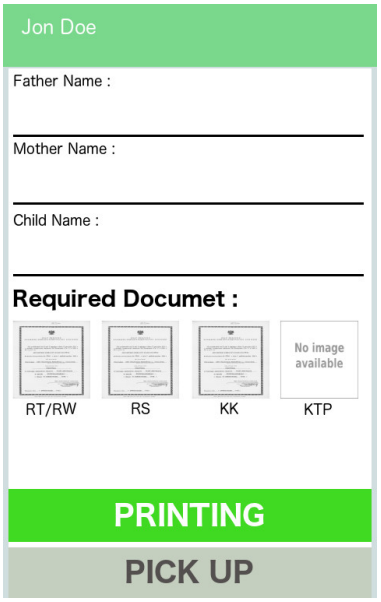
This is Add new data screen of Rereso apps. In this screen village officer will add new info regarding to family of new born baby such as father name, mother name, baby name and also requirement picture of document such as RT/RW (Letter by Neighborhood Association), RS (Certification of Birth from Hospital), KK (Family Card Identity publish by sub-district Goverment), KTP (Such as of Social Security Number). If all info already added and required document picture has already been taken then village officer will save it to system, then later will sync to sub-districts officer Rereso application.

Screen 4



This is verification screen of Rereso apps on sub-districts goverment officer side. In this screen officer will verify all information and required document to publish a certificate of birth such as father name, mother name, baby name and also requirement picture of document such as RT/ RW (Introduction latter by Neighborhood Association), RS (Certification of birth from Hospital), KK (Family Card Identity publish by sub-district goverment), KTP (Suc as of Social security number). If all info already added and required document picture taken by village goverment officer is verified, then sub-districs officer will approve it and it will sync to districts officer Rereso application. In the other hand, If all info already added and required document picture taken by village officer is not verified, then sub-districs officer will decline it and it will also sync to village goverment officer Rereso application.

Screen 5



This is printing and picking up screen of Rereso apps on districts officer side. To publish certificate of birth physically will takes time, so printing button will be selected by districts officer to update status both on sub-districtis and village officer application. If physically print document already available, then pick up button will be selected by districts officer in order to update status on sub-districts and village officer application, later village or sub-districts officer may contact the family that have certificate of birth available on districts goverment officer.

Add as many screens as you need to portray your app's UI flow.

Key Considerations

How will your app handle data persistence?

This app will use firebase realtime database and file storeage to accomodate familty infomration and picture of document needed. To simulate real case scenario firebase relatime databse and file storeage will be called on background thread such as intent service or service worker or sync adapter. To handel persistence, this app will also store persistance data in app database in case of no internet connection. Peristance data will use sqlite along with content provider, and support of cursor loader.

Describe any corner cases in the UX.

This app will be started with Main screen. If no data available in the main screen or list is empty, then empty list text view will be display in main screen. All scenario apply to all officer in each level. If village officer hit plus button, then screen 2 will display. Village officer will be able to add

information related to new born baby family and pictures of related document by hitting image according to it section. Image will be able by pick it from gallery or capture it with phone caera. If all requirement information and pictures of requirement document already fiiled, then village office will hit add button in order to sync the data with sub-districts officer. If some information or picture not supplied by village officer, then dialog pop up will show up with detail of not supplied info. Same scenario will apply to sub-districts and districts officer with some confirmatoin dialog pop up if officer hit button.

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

Some libraries will probably used are google play service to handle , picasso to handler image managment, support library to handle older version, firebase core and auth to auth with email and password, firebase realtime database to save and retrieve info of family, firebase file storage to store image of require document.

Describe how you will implement Google Play Services.

I will use google play service analytic to gather information related to behave of end user, track crash, measure how many certificate of birth can publish.

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

Write out the steps you will take to setup and/or configure this project. See previous implementation guides for an example.

You may want to list the subtasks. For example:

- Configure dependencies on project and app gradle.builld for firebase realtime database, file storage, auth, and google analytic
- Configure firebase console

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity for displaing list of new born baby application using recycler view, cursor loader, and content provider
- Build UI for DetailActivity for add and update status of new born baby application update by content provider using cursor loader.

Task 3: Implement Firebase services

Describe the next task. List the subtasks. For example:

- Implement firebase realtime database to sync data for all user
- Implement firebase file storage to sync data for all user
- Implement firebase auth to manage role of all user
- Implement firebase notification to notif user about new status update

Task 4: Store persistance data in sqlite database

Describe the next task. List the subtasks. For example:

- Create database helper, contract, and content provider class
- Create custom cursor to accomodate data from database
- Store firebase realtime database in sqlite database

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

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