

Medical Analytics Project

niRog App

EPICS Review 1



Table of contents

1. Introduction
2. Problem identification
3. Knowledge on project
4. Timeline of our tasks
5. Individual contributions
6. experiential learning program
7. Conclusion





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Introduction



The topic of our Epics Project is an application based on Medical Analytics and Services. The application is named “niRog”. It is mainly focused on uplifting Health and Medical services to citizens of our nation. It’s a software tool that helps healthcare professionals and administrators collect and analyze data related to patient care and the assigned treatments. It is also focused on collecting insights and recommendations based on real-time data, prescriptions, etc.

Throughout our daily lives, we’ve learned about many incidents which have occurred and still occurring in many parts of our country where citizens face unnecessary encounters and feedback while they were trying to seek health facilities in government hospitals: be it standing in a queue, be it not being able to receive proper feedback, etc.

Problem Identification

niRog application comes forward with the helping motive to provide citizens receive sufficient Healthcare. They will have their own freedom to book appointments from the software itself. Initially, the portal will lead them to register their accounts by filling the required details. Then it'd lead them towards their profile dashboard where they will have a clear overview of all their requested appointments and medicines. The portal will also have specialized corners for Doctors and Admins. With the given permission of the user, medicine and appointment details will be stored in a reliable database to provide better analytics and services.

Out of all the APIs which the application uses, niRog is constantly dependent on Google Location Services so that it can function its features properly. One of the features it includes has, to locate nearby Government Hospitals which are linked with niRog to work seamlessly. Users can choose any of those mentioned hospitals and then seek out the software's services.



Research

Remember to include relevant information that can promote your nonprofit while keeping readers interested in your amazing work.

Treatment

Remember to include relevant information that can promote your nonprofit while keeping readers interested in your amazing work.

Care

Remember to include relevant information that can promote your nonprofit while keeping readers interested in your amazing work.

Knowledge regarding Project Modules

Regarding the initial phases of Front-End(XML) part of our Project:

Using ScrollView

A view group that allows the view hierarchy placed within it to be scrolled. Scroll view may have only one direct child placed within it. To add multiple views within the scroll view, make the direct child you add a view group, for example LinearLayout, and place additional views within that LinearLayout.

```
<ScrollView  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:background="@color/white"  
    tools:context=".RegisterActivity">
```

Using Relative Layouts and Constraint Layouts

RelativeLayout is a view group that displays child views in relative positions. The position of each view can be specified as relative to sibling elements or in positions relative to the parent RelativeLayout area.

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="vertical">  
  
<RelativeLayout  
    android:layout_width="match_parent"  
    android:layout_height="180dp"  
    android:background="#5384FF">
```

Knowledge regarding Project Modules

Regarding the initial phases of Front-End(XML) part of our Project:

```
< androidx.appcompat.widget.AppCompatButton  
    android:id="@+id/button_login_LA"  
    android:layout_width="180dp"  
    android:layout_height="wrap_content"  
    android:layout_below="@+id/RL_pwd"  
    android:layout_centerHorizontal="true"  
    android:layout_marginStart="70dp"  
    android:layout_marginTop="30dp"  
    android:background="@drawable/btnbgthree"  
    android:text="@string/login"  
    android:textColor="@color/white" />
```

Using AppCompatButtons instead of Default Buttons

A Button which supports compatible features on older versions of the platform, including:

Allows dynamic tint of its background via the background tint methods in androidx.core.view.ViewCompat.

Allows setting of the background tint using backgroundTint and backgroundTintMode.

Allows setting of the font family using fontFamily

```
< androidx.swiperefreshlayout.widget.SwipeRefreshLayout  
    xmlns:tools="http://schemas.android.com/tools"  
    android:id="@+id/swipeContainer"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">
```

Using SwipeRefresh Layout

We have tried to use SwipeRefresh Layout here because whenever the patient/user joins the activity, he or she will be able to refresh the contents of the view via a vertical swipe gesture. This will let the user stay updated.

Knowledge regarding Project Modules

Moving onto the initial phases of the Back-End (Java Logic and Firebase Database) parts of our Project:

Initializing views and objects of our Project

Here, we have taken our first step in working with Logic and Connections in our Main Activity, where we initialize our views and objects. They will be further recognized here from their submitted attribute IDs through the XML codebase by using R.findViewById attribute where R denotes to the resources in our project.

```
public class MainActivity extends AppCompatActivity {  
  
    Button loginButtonMain;  
    TextView registerMain;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
    }  
}
```

Importing the sufficient set of ViewModes and Modules for our MainActivity

It is highly important for our Project to have a good exposure on the modules and libraries that we will be using to enhance the performance and services of our application

```
package com.epics.medanalytics6;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
|
```

Knowledge regarding Project Modules

Moving onto the initial phases of the Back-End (Java Logic and Firebase Database) parts of our Project:

```
loginButtonMain.setOnClickListener(new View.OnClickListener()
    @Override
    public void onClick(View v) {
        Intent intent = new Intent(getApplicationContext(), MainActivity.class);
        startActivity(intent);
    }
}
```

Setting up onClickListeners to redirect users/patients to their respective areas

Here, we have used a few onClickListeners on two of our Buttons: Login and Register Button so that users can freely choose whether they wish to register a new account or login to their original page every time they initialize installing and then open the interface of our software. We have used intents here.

Using SwipeRefresh Layout

We have tried to use SwipeRefresh Layout here because whenever the patient/user joins the activity, he or she will be able to refresh the contents of the view via a vertical swipe gesture. This will let the user stay updated.



"Every child should have
the chance to grow up."

- Founder

Our impact

6,543

Insert statistic here

321

Insert statistic here

1,234

Insert statistic here

432

Insert statistic here

The opportunity

- 01 Here is where you can write about how you plan to scale your impact with the addition of external funding.

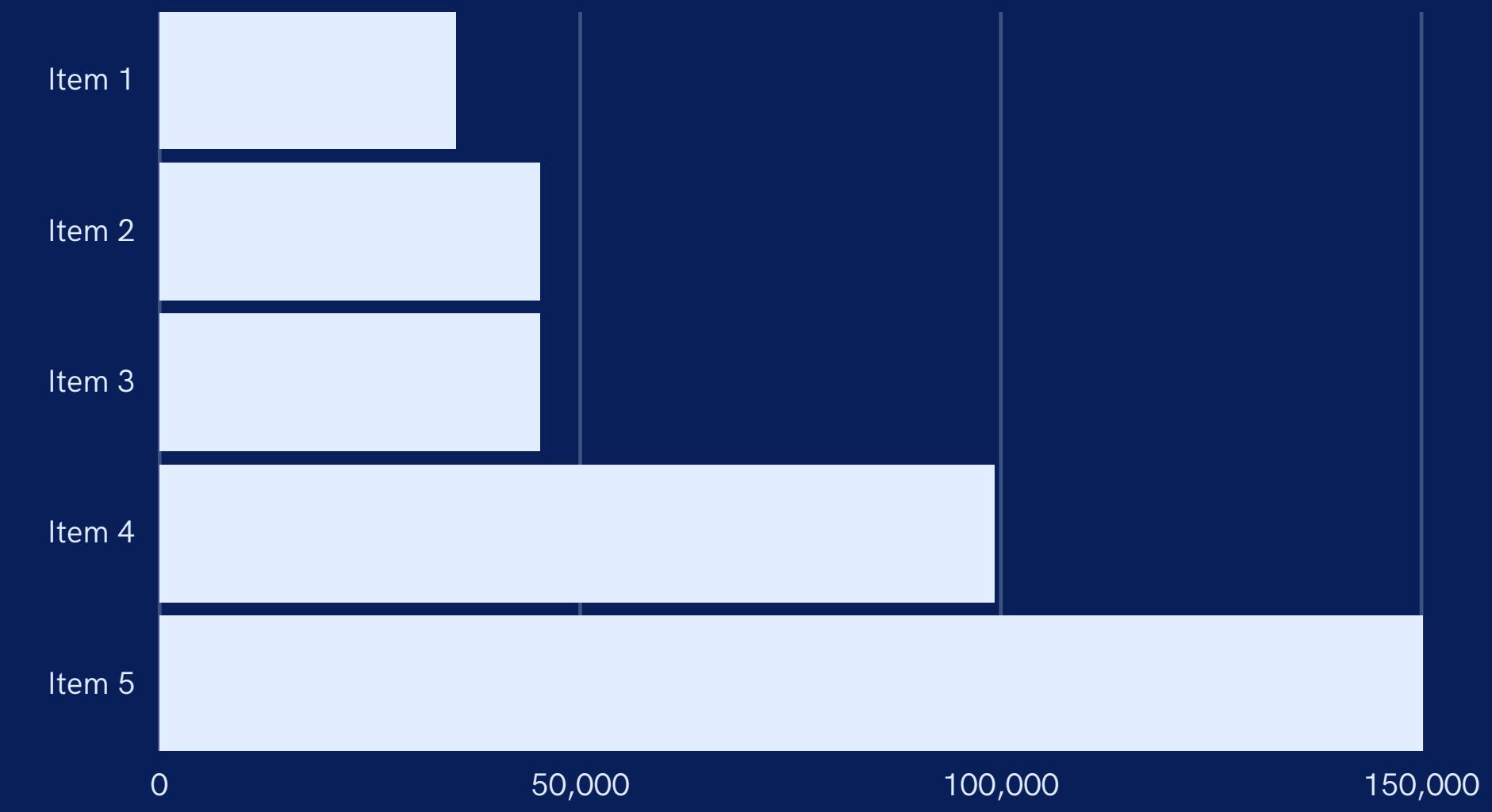
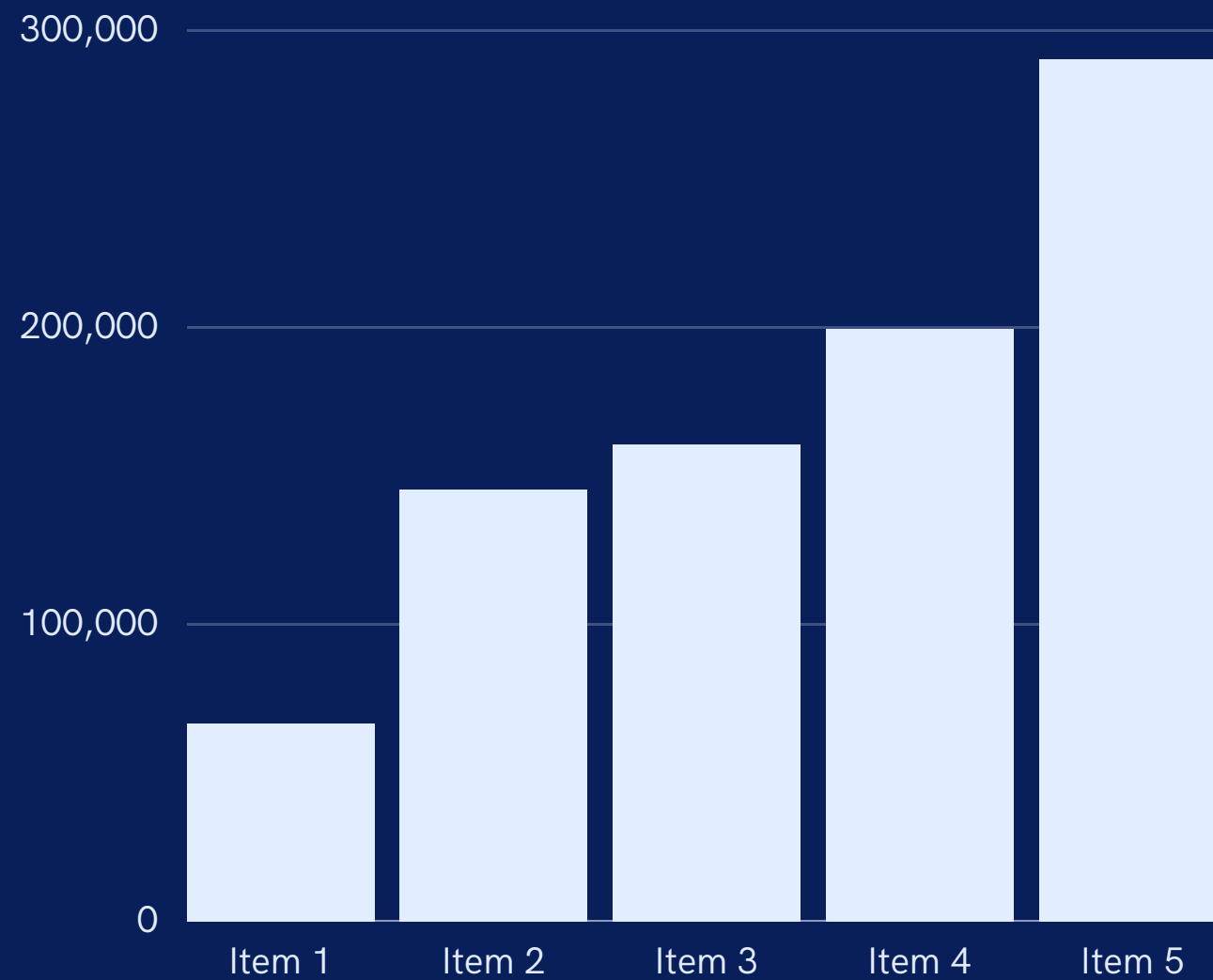
- 02 Here is where you can write about how you plan to scale your impact with the addition of external funding.

- 03 Here is where you can write about how you plan to scale your impact with the addition of external funding.



Funding impact

Write about how much of a positive difference the funding will make.
The tables and graphs are there for you to share any important figures or statistics that will demonstrate the funding's impact.



Measuring impact

This section should include details such as success indicators and how you will collect data to measure your impact. Include consistent and comparable data in formats your audience can understand and appreciate over time.

**Key
Indicator**

Your Key Performance
Indicator goes here

Your Key Performance
Indicator goes here

Your Key Performance
Indicator goes here

**Activity /
Project**

Add a few details
describing the
related activities

Add a few details
describing the
related activities

Add a few details
describing the
related activities

Contact us

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**Thank you for
your consideration**

