

# Project Definition Document – QuakeAlert

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# 1.Project Name

QuakeAlert – Real-Time Earthquake Notification App

## 2.Project Summary

QuakeAlert is a mobile application built using Expo/React Native that provides real-time earthquake notifications to users. The app collects earthquake data from open APIs such as AFAD or USGS and pushes alerts to users' devices when an earthquake occurs near them. It also offers basic safety instructions like "Drop, Cover, and Hold On" to help users react quickly during an emergency.

## 3.Objectives

- Provide fast and accurate earthquake alerts based on the user's location
- Display safety recommendations when an earthquake occurs
- Allow users to customize notification preferences
- Display a list of recent earthquakes
- Deliver a functional and user-friendly mobile app

## 4.Scope

### Included:

- Real-time data fetching from public APIs
- Push notification delivery
- User interface for viewing recent earthquakes
- Simple settings panel for notification preferences

### Not Included:

- Predictive earthquake modelling
- Social media sharing or login

## 5.Target Audience

Mobile users living in earthquake-prone regions (especially in Turkey)

## 6.Key Features

1. Real-time earthquake alert notifications
2. Safety instruction display ("Drop, Cover, and Hold On")
3. List of past earthquakes
4. Adjustable notification settings
5. Location-based alert filtering

## 7.Deliverables

- Source code on GitHub
- Project documentation (Definition, Plan, Requirements, Architecture, Pattern Mapping)
- Live demo

## 8.Succes Criteria

1. Notifications are delivered within 10 seconds of earthquake detection
2. All five key features are fully implemented and functional
3. At least 80% of test users report a positive experience in usability testing

## 9.Task Matrix

Task	Responsible Member
Project summary writing	Altar
Feature list and scope definition	Talha
Objectives and target audience section	Samet
Success criteria formulation	Yakup
Final review and formatting	Altar