



G. H. RAISONI COLLEGE OF ENGINEERING NAGPUR



Mini Modelling Report

on

Fertility Advisor

(Android Application)

By

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INTRODUCTION

A farmer has to maintain record of all the activities going on on the field. Recoeding all the watering times, fertilizers, expenses and upcoming activities becomes a tedious task. To sort this problem out, we give you one of a kind application 'Fertility Advisor'.

WORKING

'Fertility Advisor' is an app based on web technologies which makes it easier to deploy on various platform with minimal source changes. Powered by Apache Cordova, built using Phonegap and using materializecss and jQuery backend, it is extremely easy to customize and scale the software according to the needs.

SOFTWARE TECHNOLOGIES USED:

1. HTML5
2. CSS3
3. ECMAScript 2015 (JavaScript)
4. jQuery
5. Materialize
6. Apache Cordova
7. Adobe Phonegap
8. GitHub
9. Android Studio
10. Adobe Brackets
11. Arch Linux

ADVANTAGES

1. Easy to use
2. Inbuilt crop encyclopedia

3. No internet connection required
4. Simple and clean interface
5. Small storage footprint
6. Suggest crops based on geographical conditions
7. Suggest suitable treatments and additives
8. Maintains record of all activities
9. Predicts harvest and harvest time

DISADVANTAGES

Requires smartphone with a web browser

User must be familiar with usage of apps

DETAILS OF TECHNOLOGIES

HTML5

HTML5 is the latest and most enhanced version of HTML. Technically, HTML is not a programming language, but rather a mark up language.

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and current version of the HTML standard.

CSS3

CSS3 is the latest evolution of the Cascading Style Sheets language and aims at extending CSS2.1. It brings a lot of long-awaited novelties, like rounded corners, shadows, gradients, transitions or animations, as well as new layouts like multi-columns, flexible box or grid layouts.

JavaScript

JavaScript ("JS" for short) is a full-fledged dynamic programming language that, when applied to an HTML document, can provide dynamic interactivity on websites. It was invented by Brendan Eich, co-founder of the Mozilla project, the Mozilla Foundation, and the Mozilla Corporation.

jQuery

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

Materializecss

A modern responsive front-end framework based on Material Design.

Apache Cordova

Apache Cordova is an open-source mobile development framework. It allows you to use standard web technologies - HTML5, CSS3, and JavaScript for cross-platform development. Applications execute within

wrappers targeted to each platform, and rely on standards-compliant API bindings to access each device's capabilities such as sensors, data, network status, etc.

Use Apache Cordova if you are:

- a mobile developer and want to extend an application across more than one platform, without having to re-implement it with each platform's language and tool set.

- a web developer and want to deploy a web app that's packaged for distribution in various app store portals.

- a mobile developer interested in mixing native application components with a WebView (special browser window) that can access device-level APIs, or if you want to develop a plugin interface between native and WebView components.

CONCLUSION

This project enabled us to understand core web technologies and their niche corners in-depth and apply their knowledge to make software applications suitable to our requirements.

REFERENCES

<https://cordova.apache.org/docs/en/latest/>

<http://materializecss.com/>

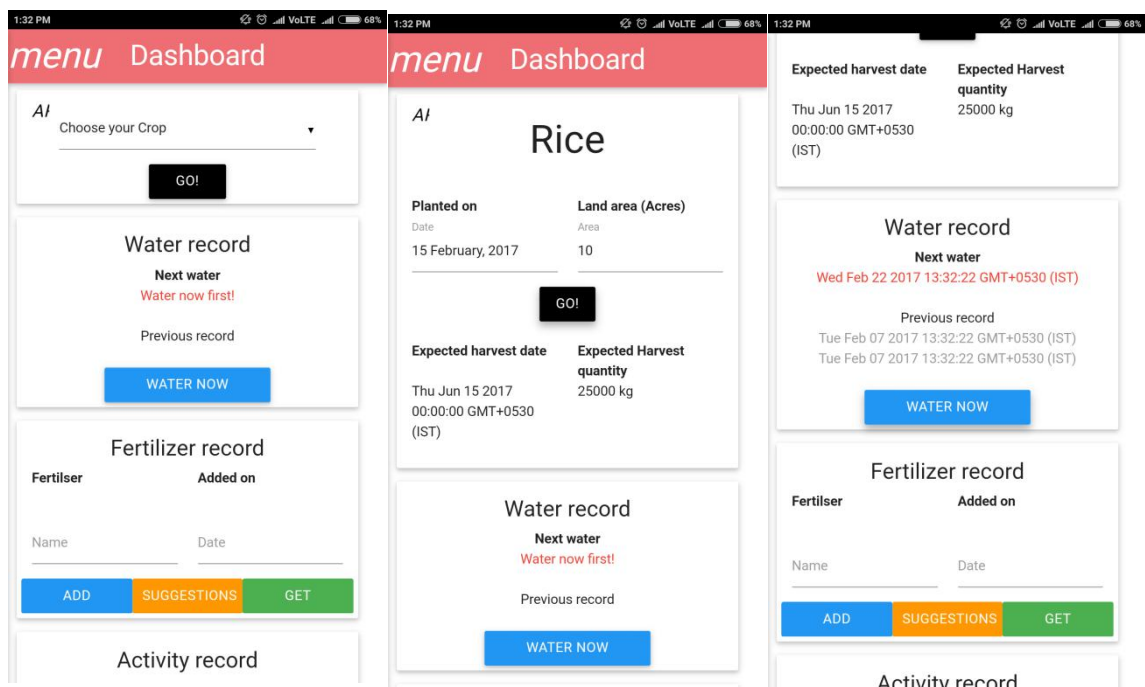
<http://www.w3schools.com/jquery/>

<http://www.w3schools.com/html/default.asp>

<http://www.w3schools.com/js/default.asp>

<http://www.w3schools.com/css/default.asp>

SCREENSHOTS



Previous record

Tue Feb 07 2017 13:32:22 GMT+0530 (IST)

Tue Feb 07 2017 13:32:22 GMT+0530 (IST)

WATER NOW

Fertilizer record

Fertiliser

Syrs

Syrs

Added on

22 February, 2017

22 February, 2017

Name

Syrs

Date

22 February, 2017

ADD

SUGGESTIONS

GET

Activity record

Activity

Syrs

Syrs

Date

22 February, 2017

22 February, 2017

ADD

SUGGESTIONS

GET

Expense record

Activity

Syrs

Syrs

Date

22 February, 2017

22 February, 2017

ADD

SUGGESTIONS

GET

Syrs

22 February, 2017

Name

Syrs

Date

22 February, 2017

ADD

SUGGESTIONS

GET

Activity record

Activity

Rydh

Rydh

Rydh4

Date

15 February, 2017

15 February, 2017

15 February, 2017

Name

Rydh4

Date

15 February, 2017

ADD ACTIVITY

UPCOMING

Expense record

Activity

Rydh

Rydh

Rydh4

Date

15 February, 2017

15 February, 2017

15 February, 2017

Name

Rydh4

Date

15 February, 2017

ADD ACTIVITY

UPCOMING

menu Encyclopedia

All Crops

Rice

Sample

CLICK HERE T...

Sample

Sample

CLICK HERE T...

Sample

Sample

CLICK HERE T...

Sample

Sample

CLICK HERE T...

menu Crop Information

Best season

Summer

Growth Time

120 days

Rice

Open in Wikipedia

Rice is the seed of the grass species *Oryza sativa* (Asian rice) or *Oryza glaberrima* (African rice). As a cereal grain, it is the most widely consumed staple food for a large part of the world's human population, especially in Asia. It is the agricultural commodity with the third-highest worldwide production, after sugarcane and maize, according to 2012 FAOSTAT data.[1] *Oryza sativa* with small

menu About

Fertility Advisor

Your friendly farm manager.

v 1.0.0

Credits

Developers

Krushn Dayshmookh