

RMS² Mobile Documentation

Dylan Nichols - 9994086

Introduction

My application will be a mobile version of an existing web application that I am developing to allow remote monitoring and control of automation systems in the horticulture industry. The mobile application will use the same database and API but provide a separate user interface for Android created in Xamarin for Android. Not all features from the web app will be available on release but the user will be able to view live data from the nodes they have access to and will be able to remotely change settings at that node.

User Stories

As an orchard/packhouse manager, I should be able to see live data from my orchard/packhouse in a table format where it is easy to see which data corresponds to which system and which aspect of that system so that I can monitor the automation systems even when I am not physically present and able to check to the on location HMI.

As an administrator, I should be able to see a list of nodes available to me and be able to select from them to view their dashboards so that I am able to keep track of the status of nodes and troubleshoot errors remotely.

As an orchard/packhouse manager, I should be able to refresh the data displayed on the dashboard, so that if new data has been sampled since the last refresh, the data displayed can be updated to correspond to the most recent available data.

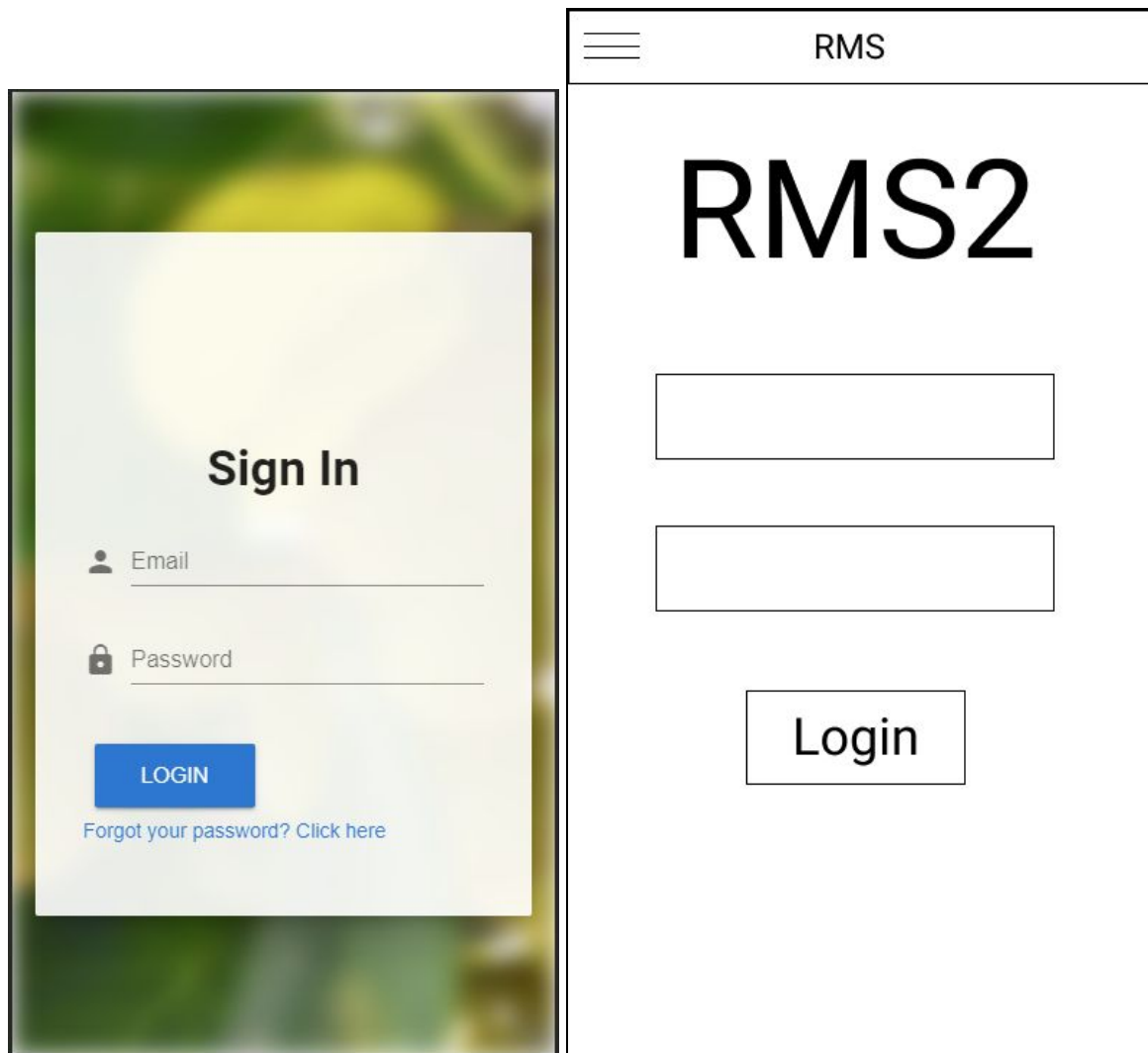
As an orchard/packhouse manager, I should be able to change settings using switches and dropdown menus and these changes should then be reflected in the operation of the automation system so that if something goes wrong or requires changing while I am not

physically present at the site, I am able to make appropriate adjustments to the automation system remotely.



Wireframes and Web Application Screenshots


The wireframes here show the basic layout that the mobile application will follow. They are based on the web application but will not necessary follow it, in order to provide a better mobile user experience. The screenshots accompanying them serve to provide the basic content that each screen should contain and the colour and style themes for the application.

Login Screen



Node Select



LOGOUT 

issues please contact:

ASPEN GOLD

CONCARDEV

FLORA 6

GOLD NUGGET

KOROMIKO DAIRIES

MOUNT MAUNGANUI


NANUK ORCHARD

NGAPEKE

NGATI HE

ONEPU ORCHARD

PAREKAHU



Node Select

Lorem

Lorem

Lorem

Lorem

Lorem

Lorem

Lorem

Lorem

Lorem

Dashboard

NGATI HE

LOGOUT

Frost Control

Auto

Manual

On

Off

Irrigation Control

Manual Irrigation

Auto Irrigation

Off

Off

Pump Control

Bore

Status

Flow

Water Used Today

Water Used Yesterday

Frost Enabled

0.00 l/s

0.00 M3

2.00 M3

Temperature

Node Name

Lorem

Lorem ipsum dolor sit amet
lorem ipsum dolor

Lorem

lorem

lorem

lorem

lorem

8.90C

8.90C

8.90C

8.90C

Lorem

lorem

lorem

lorem

lorem

8.90C

8.90C

8.90C

8.90C

Lorem

lorem

8.90C