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| Hodmon Pump Services |
| Android application design document |
| John Hodmon |

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# information required for app testing

* Email address: [johnhodmon@gmail.com](mailto:johnhodmon@gmail.com)
* Password: p
* There is service requests set up for 01/03/2015 and 01/04/2015 only.
* For the purposes of testing there is a method included for adding dummy data that will not form part of the design

# introduction

The application is designed to be used by a company who services submersible pumps. The application is to be installed on the mobile devices of the pump service personnel. Using the application the service personnel can

* See a list of service requests for a particular date
* Click on an item in the list to see details of the request
* Having visited the site, write a report on observations and repairs and order spare parts, this report can be updated as necessary at any time
* Add a service request
* Edit a service request

# functions

## log in

The employees enter an email address and password before using the app. The app will eventually show service requests only for the person logged on, this is functionality is not present in the current iteration

## view list of service requests

Following log\_in the employee is presented with a list of his or her service requests for the current date. Service requests for another date can be seen by clicking on the calendar icon and selecting a date from the calendar on screen.

The list of service requests shows the customer name and the town filed from their address. A more detailed view for an individual request can be seen by clicking on that request.

The service personnel can add a new service request at this point. The form is launched from the action bar menu

## adding a new service request

This is a simple form where the customer contact details are added along with the pump and fault description. Input validation is present on the date and phone number fields as these must be entered in a specific format to allow the app and underlying database function correctly

## detailed view of service request

This screen shows all of the customer contact details and a brief description of the reported fault. The customer can be called by pressing the button on which the phone number is displayed, this launches the phone’s dialler and calls the number.

If the service personnel see an error in the contact details or reported fault they can edit he call out request. This facility is accessed from the action bar menu of this screen.

The service personnel can write a report and order spare parts when they have visited the site. This facility is also accessed from the action bar menu of this screen.

## report and spare parts order

The report screen allows the service personnel to write a report on repairs carried out and also to order spare parts. Only parts that are contained in the pump on site are shown in the drop down list. When a part has been added to the order it disappears from the drop down list to avoid being added again.

The service personnel can edit the quantity on a line in the spares order list or can delete an item from the list entirely in which case that item reappears in the dropdown list.

# future development

Potential developments for this application include;

* A map view of service requests using Google Maps
* Directions to the address using Google Maps
* Database of service callouts maintained at a remote location and accessed via a web service