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| Blackberry LTD |
| Carey Car Scheduling System |
| Documentation |
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| This document describes the implementation of the Carey Car Scheduling system for the FTS EMEA team. |

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## Prerequisites:

### Equipment Required:

* Laptop loaded with XAMPP (<https://www.apachefriends.org/index.html>)
* BlackBerry Device OR SMTP Server

### Configuration [For Reinstallation]:

1. Once you have XAMPP installed, copy the files into the directory C:/xampp/htdocs/
2. Start the Apache Web Server and MYSQL through the control panel.
3. Import the .sql file into MYSQL **[Please ensure that MYSQL server has no password ]**
4. The System should now be available by typing in the web browser of the local machine: localhost/careycarsystem/
5. If you are using a BB device then add an Email account to the device and plug the device into the laptop(Ensure the device connects)#
6. For connection with the BlackBerry, the Automation in Motion Framework is used(http://aim/)
7. If you are using a SMTP sever then you must first ensure you have permission from IT to unblock port 25 from your computer. Then find the server address. They will provide you with details.
8. Start the python script found at careycarsystem/request-scanner/mainApp.py

**After Configuration, the system will be in full operation and can start taking requests.**

### Frameworks:

* Bootstrap 3 (Grid System used heavily for responsive design for mobile)
* jQuery
* Automation Framework(aim)

## Changes:

### Cost Center Change:

1. On the laptop go the directory: C:/xampp/htdocs/
2. Find the file called: payment\_credentials.php
3. You should see the following code:

<?php

$CCenter = "313211";

$GLCode = "650003";

?>

1. CCenter = Cost Center and GLCode = GLCode
2. Change the credential you would like to change.

### Email Change:

You will be able to change the email that the system emails from at any time. All you have to do is change the account on the BlackBerry Device that the system is attached too.

### Password Change:

If you ever need to change a password then please go to this address(On the machine the application is hosted on):

<http://localhost:8080/carercarsystem/resetpassword.php>

Enter the users email and then let them enter the NEW password they want. The application will deal with the encryption and replacing off the old password by itself.

## Issues:

### Xampp Load Issue:

When starting the server again you may see either Apache or MYSQL highlighted yellow. This means that the server has not started correctly. You can try to fix this by clicking stop and start again, This requires some patience as it does take a few seconds.

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| Issue | Working Correctly |

### BlackBerry Email:

Sometimes the BlackBerry connected to the device can have issues sending an email. The email may time out. This seems to either be a WIFI connection issue or email server issue. I would recommend using a reliable email which is probably internal if this repeatedly occurs.

## Known System Issues:

This section includes potential issues to be fixed by either another developer or a future intern.

### Calendar Icons not Rendering Correctly:

The Calender uses the jQuery Mobile UI framework to take input from the user. Unfortunately the icons for next/previous month does not render correctly. This is due to jQuery not being able to find the icons correctly. Hovering over where the icon should be gives a blue highlight with a correct tooltip.

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|  | Hovering over Icon. |

### Internet Explorer UI Issues:

Occasionally if you are using IE as a browser then you may run into some rendering issues. This is as IE does not support media queries(through Bootstrap 3). An attempt to fix this can be found in scripts/compat/ however sometimes they seem to fail. This is embedded in the head tag of each page.

<!-- COMPAT -->

<!--[if lt IE 9]>

<script src="scripts/compat/html5shiv.min.js"></script>

<script src="scripts/compat/respond.js"></script>

<![endif]-->

<!-- END COMPAT -->

## Improvements:

### Domain Name:

At the moment the way to access the web application is through some ip address like: <http://10.130.20.58:8080/carercarsystem/home.php>

The original intention that the system was to be put on to a go/ site.(e.g. go/carey) However due to IT having some high priority jobs and time constraints this was not made possible. It would be ideal if the system was to be put on to a managed server that can be accessed through an easily memorable address.

To do this, the files would have to be transferred to wherever IT can host the application. You would then have to go into MYSQL and export a .sql file so they can copy all the details from the database. Please use the following checklist to ensure the hosting that IT is giving you is sufficient for the web application:

* Web Server
* PHP/MYSQL
* MYSQL
* Python
* SMTP Server(If the system was too move to external hosting then SMTP should be already set up and you would have to leave the work around of using a BlackBerry Device to send emails.)
* FTP Server (Optional – If you want to transfer files over)

### Modify/Cancel Requests:

Due to some uncertainty and time constraints, the ability to modify or cancel requests was not implemented. Instead if a tester has a change of plan they will have to contact the external company directly. There is some uncertainty on the external companies’ cancellation procedure. Some research and careful research would need to be done before implementation this.

### Cost Center Dynamics:

There was a plan to implement an easier way to change cost centers or GL codes in the event that they changed. The plan was to add a database table for these details and to retrieve them when submitting a request and updating the tables through update transactions. There was not enough time for this but it’s a relatively simple implementation.

### Admin Cost Viewer

There was some ideas on calculating a weekly cost for the that week’s expenses on the external company. As there was no known standard price this was not implemented but a simple database table could be added and simple statistics could be done to provide a this information. A dedicated tester would need to update this data on a weekly basis though.

### Next/Previous Week Bookings:

Currently the main timetable in home.php has constraints of only the current working week. The PHP constraints only request of this time when it pulls data from the database. It would beneficial for testers to see atleast one week in the future/past.