# Appointment Booking System Installation & Usage

By the LCJJ SE:PT Development Team

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## Introduction

The Appointment Booking System is a Software Engineering: Process & Tools project. The system is developed using PHP as the programming language with <u>Laravel</u> (a PHP framework).

This document will assume the reader has basic knowledge in operating a computer and basic web usage on the system.

Deploying this software for production use is managed with a dev is acquired through running web hosting software (<u>Apache</u>) and a relational database management system (<u>MySQL</u>, <u>PostgreSQL</u>).

For functionality sake, the document will go through the setup to use PHP (running a local server command) and SQLite (local database) to host on URL http://localhost:8000.

# System Prerequisites (DevOps only)

The follow application requires the proper environment to run the software.

## **Operating System**

It is recommended to use *Windows 10 Pro* as it has been tested and developed accordingly. Other operating systems may work, though configuration will be out reach for this documentation.

## **Command Prompt**

To use PHP or run installation commands, a terminal must be used that can run binary programs. Windows comes with command prompt by default and terminal for Mac OS.

Command Prompt

```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
```

#### Web Browser

Almost any latest common web browser can be used to visit the application webpages. Though the <u>Google Chrome browser</u> is recommended since it has been tested and developed with no functionality issues.

## PHP 7.0.1 +

System requires a <u>PHP binary package</u> with version 7.0.1 or later. Go through the <u>installation</u> provided by php.net.

To verify if PHP is running on your system, run the following command `**php -v**` on a --command prompt.

```
C:\Users\jjohh>php -v
PHP 7.1.2 (cli) (built: Feb 14 2017 21:24:49) ( ZTS MSVC14 (Visual C++ 2015) x64 )
Copyright (c) 1997-2017 The PHP Group
Zend Engine v3.1.0, Copyright (c) 1998-2017 Zend Technologies
```

#### **Important**

Once PHP is installed on the computer, the following PHP extensions must be enabled to allow the application to run properly.

- OpenSSL
- PDO
- Mbstring
- Tokenizer
- Sqlite3
- XML
- FileInfo

Instructions to enable extensions for Windows is <u>here</u>. Otherwise, a simple Google search on how to enable PHP extensions on other operating systems is relevant.

## Composer

Laravel relies on a PHP dependency manager to install third-party software such as Bootstrap (a CSS framework).

To verify that Composer is installed, run the following command 'composer -V'.

```
C:\Users\jjohh>composer -V
Composer version 1.4.0 2017-03-08 17:51:24
```

## **Copy of the Application**

Make sure all files exist as shown on the image.

-	арр	8/04/2017 12:54 AM	File folder	
	bootstrap	15/03/2017 6:28 PM	File folder	
	config	21/03/2017 1:22 AM	File folder	
	database	8/04/2017 12:51 AM	File folder	
	node_modules	17/03/2017 2:27 AM	File folder	
	public	17/03/2017 2:27 AM	File folder	
	resources	15/03/2017 6:28 PM	File folder	
	routes	4/04/2017 9:20 PM	File folder	
	storage	15/03/2017 6:28 PM	File folder	
	tests	30/03/2017 4:41 PM	File folder	
	vendor	8/04/2017 3:07 AM	File folder	
5	.env.example	23/03/2017 12:44	EXAMPLE File	1 KB
	.gitattributes	15/03/2017 6:28 PM	Text Document	1 KB
S	.gitignore	30/03/2017 2:04 PM	GITIGNORE File	1 KB
	artisan	15/03/2017 6:28 PM	File	2 KB
5	composer.json	22/03/2017 9:33 PM	JSON File	2 KB
	composer.lock	27/03/2017 12:42	LOCK File	123 KB
	debug.log	5/04/2017 5:13 PM	Text Document	2 KB
'5'	package.json	17/03/2017 2:26 AM	JSON File	2 KB
	phpunit.dusk.xml	25/03/2017 2:59 PM	XML Document	1 KB
	phpunit.xml	30/03/2017 8:51 PM	XML Document	2 KB
5	README.md	8/04/2017 12:54 AM	MD File	5 KB
3	server.php	15/03/2017 6:28 PM	PHP File	1 KB
0	unit.bat	21/03/2017 4:14 PM	Windows Batch File	1 KB
5	webpack.mix.js	15/03/2017 6:28 PM	JS File	1 KB
	yarn.lock	15/03/2017 6:28 PM	LOCK File	164 KB

# **Installation (DevOps only)**

## **Moving Application**

Simply place the application files in an accessible place on the local computer with proper read, write and execute permissions.

## **Installing Composer Dependencies**

Open a command prompt and change directory to the application folder.

Run the following command 'composer install' to install required dependencies.

#### C:\Users\jjohh>composer install

## Creating an .env (environment) file

Laravel has predefined configurations that can be modified to suit different working environments. Whether that is a development, testing or production environment with the framework.

The required configuration needed is a production environment. To do so, there is a *'.env.example'* file located at the root of the application folder.

Rename the file from '.env.example' to '.env'. This let Laravel know that there is a user defined configuration for the environment.

```
APP ENV=production
    APP_KEY=
     APP_DEBUG=true
     APP_LOG_LEVEL=debug
    APP_URL=http://localhost:8000
    DB CONNECTION=sqlite
    DB HOST=127.0.0.1
    DB_USERNAME=root
    DB_PASSWORD=
    BROADCAST DRIVER=log
14 CACHE_DRIVER=file
    SESSION_DRIVER=file
16 QUEUE_DRIVER=sync
REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
    REDIS PORT=6379
22 MAIL_DRIVER=smtp
23 MAIL_HOST=mailtrap.io
24 MAIL_PORT=2525
    MAIL_USERNAME=null
    MAIL PASSWORD=null
    MAIL_ENCRYPTION=null
    PUSHER_APP_ID=
    PUSHER_APP_KEY=
    PUSHER_APP_SECRET=
```

## **Generating a key**

The Laravel PHP framework needs a key to be generated before usage. Run the following command 'php artisan key:generate' at the root of the application.

C:\Users\Johnny>php aritsan key:generate

## Migrate the Database

Run the following command 'php artisan migrate:refresh' to migrate database schemas (create tables in the database). Using the '--seed' flag is also useful to add predefined items to the database.

```
C:\Users\jjohh\projects\git\SE-PT-Assignment>php artisan migrate
Migration table created successfully.
Migrating: 2017_03_19_081558_create_business_owners_table
Migrated: 2017_03_19_081558_create_business_owners_table
Migrating: 2017_03_19_081613_create_bookings_table
Migrated: 2017_03_19_081613_create_bookings_table
Migrating: 2017_03_19_081620_create_customers_table
Migrated: 2017_03_19_081620_create_customers_table
Migrating: 2017_03_19_083138_create_employees_table
Migrated: 2017_03_19_083138_create_employees_table
Migrating: 2017_03_19_084917_create_availabilities_table
Migrating: 2017_03_19_084917_create_availabilities_table
Migrating: 2017_04_05_114720_create_working_times_table
Migrated: 2017_04_05_114720_create_working_times_table
```

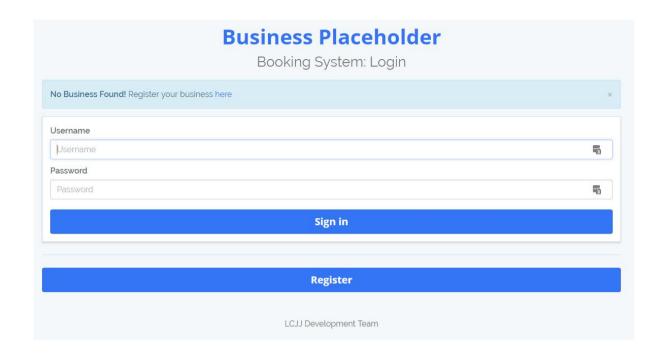
Ignore the timestamp prefix on the files, they do not have to be exactly the same as output shown above.

## **Starting a Server**

Run the following command '**php artisan serve**' to start a local host server through command prompt.

```
C:\Users\jjohh\projects\git\SE-PT-Assignment>php artisan serve
Laravel development server started: <http://127.0.0.1:8000>
```

The application is now ready to be used through <a href="http://l27.0.0.1:8000">http://localhost:8000</a>.



## **Usage**

This section will go through all functionality of the Appointment Booking System application.

The following instructions will assume that the application URL is <a href="http://localhost:8000">http://localhost:8000</a> and when told to visit a certain page given its route (e.g. /login) represents the URL <a href="http://localhost:8000/login">http://localhost:8000/login</a>.

## **Functionality**

The application can do the following actions organised by the role of the user of either customer or business owner.

#### Customer

User is to not do any administrator actions and only be able to do the following:

- Login / Register as customer
- Add Booking without employee
- View Customer Bookings
- Logout

#### **Business Owner (Administrator)**

User is able to do all actions provided by the application (super user). This includes customer actions.

- Login / Register as business owner (includes registering the business)
- Add Employee
- Add Working Time
- Edit Working Time
- Add Booking
- Add Activity

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- Assign Employee to Booking
- View Business Information
- View Employee Availability
- View a Summary of Bookings
- View a History of Bookings
- Logout

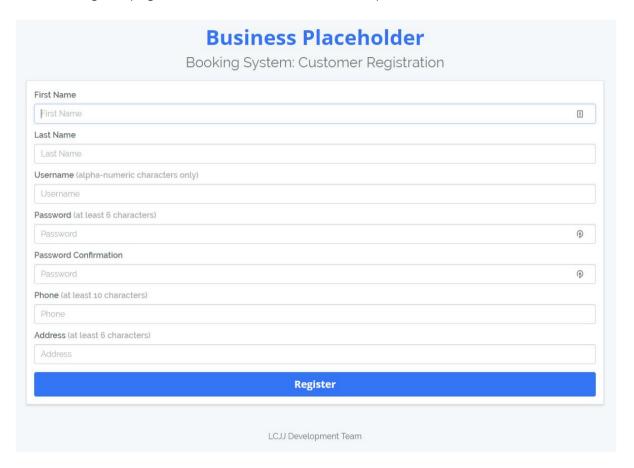
## Requirements

The only software needed to use the application is a <u>web browser</u> as started in the software prerequisites.

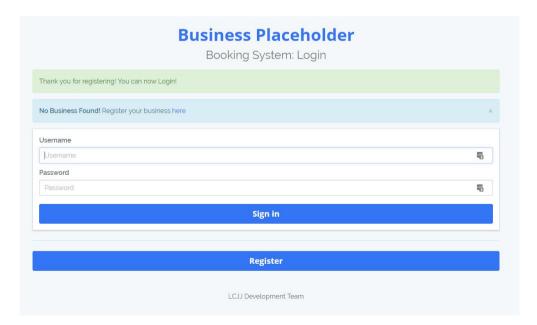
## Customer

## Register

Visit the /register page and fill customer details in the input form.



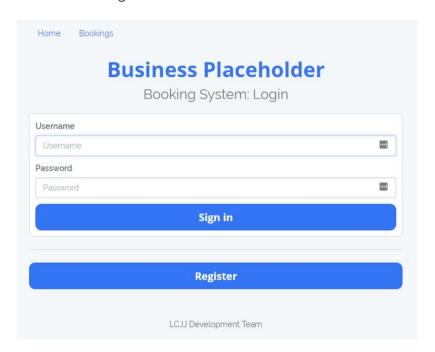
Click the 'Register' button to submit the customer registration form. Once the form has been successfully submitted and validated, a redirection to /login and a message shown stating a successful customer registration.



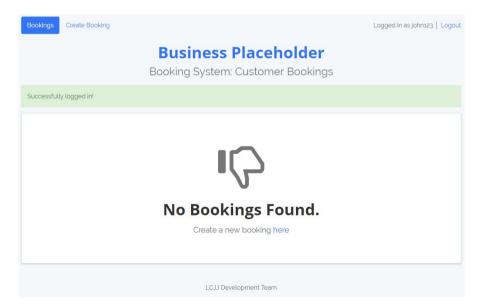
#### Login

Visit the /login page or root of the application (<a href="http://localhost:8000/">http://localhost:8000/</a> will redirect to /login). There will be an input form displayed with fields username and password.

It is important that a customer username and password must exist before logging in. Follow the customer registration section to create a new customer.



Once the login form is filled, click the 'Sign in' button and the page will redirect to /bookings if the login was successful.



## **View Bookings**

Visit /bookings to view all customer bookings.



Logged in as john123 | Logout

# **Business Placeholder**

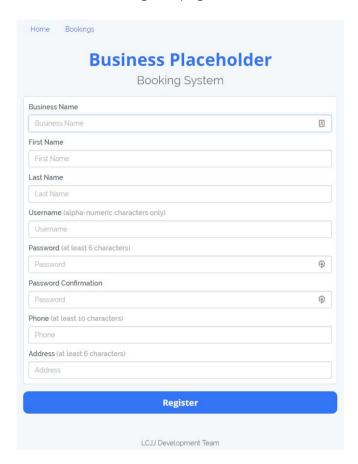
Booking System: Customer Bookings

ID	Start Time	End Time	Date	Duration
259	04:00 AM	07:30 PM	11/04/17	15:30
568	04:30 AM	06:30 PM	12/10/16	1 <mark>4</mark> :00
86	02:00 AM	08:00 PM	11/04/17	18:00
48	06:00 PM	10:30 PM	04/03/18	4:30
474	02:00 AM	03:00 AM	12/12/16	1:00
422	02:00 AM	04:00 AM	31/07/16	2:00
353	06:00 AM	08:00 PM	04/07/16	14:00
181	11:00 AM	09:30 PM	14/10/17	10:30
677	04:00 AM	10:30 AM	12/04/17	6:30
912	04:00 PM	06:00 PM	09/01/17	2:00
10	01:00 PM	12:00 AM	11/01/18	13:00
318	12:00 AM	01:00 AM	20/06/17	1:00
654	01:30 PM	02:30 PM	22/09/17	1:00
136	06:00 AM	08:30 AM	17/08/16	2:30
803	08:30 PM	11:30 PM	20/01/17	3:00

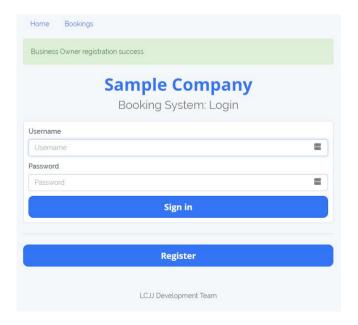
## **Business Owner (Administrator)**

## Register

Visit the /admin/register page and fill business owner details in the input form.



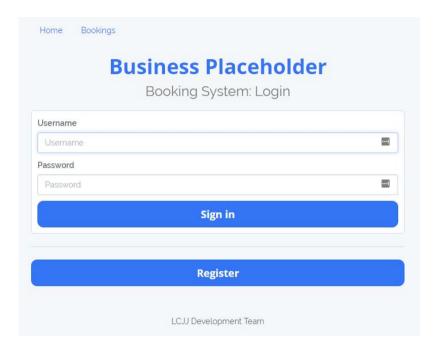
Click the 'Register' button to submit the business owner registration form. Once the form has been successfully submitted and validated, a redirection to /login and a message shown stating a successful business owner registration including the business itself.



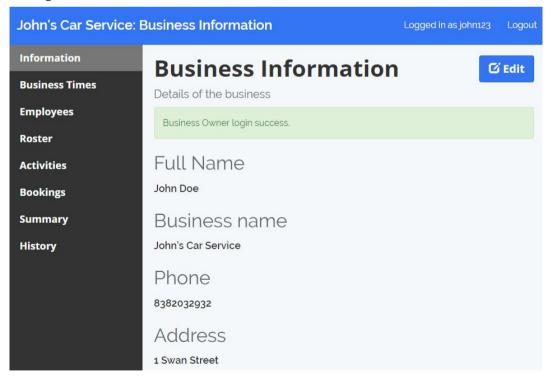
## Login

Visit the /login page or root of the application (<a href="http://localhost:8000/">http://localhost:8000/</a> will redirect to /login). There will be an input form displayed with fields username and password.

It is important that a business owner username and password must exist before logging in. Follow the business owner registration section to create a new business owner.



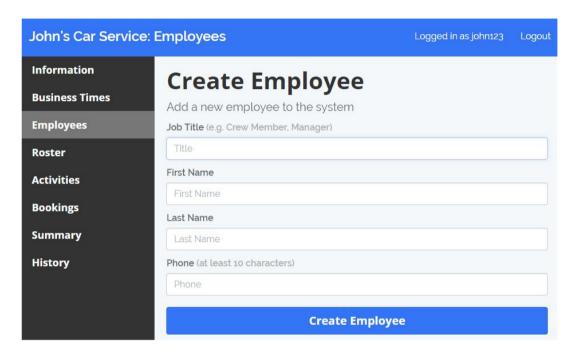
Once the login form is filled, click the 'Sign in' button and the page will redirect to /admin if the login was successful.



## **Create Employee**

Visit the /admin/employees page to add employees. Business owner must be registered and logged in to do the following actions.

Fill out the form provided on the page and click the 'Create Employee' button to submit the form.

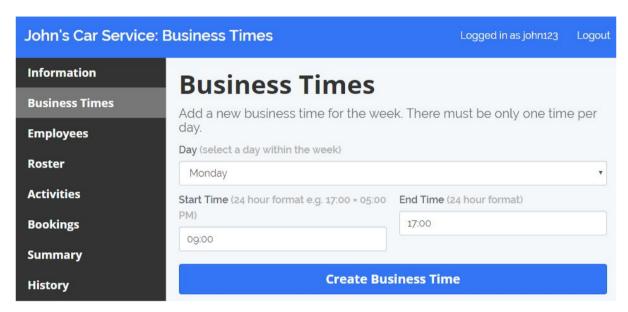


Once the form has been submitted and the input is valid, a new employee is created.0

#### **Create Business Time**

Visit the /admin/times page to create business times. Business owner must be registered and logged in to do the following actions.

Fill out the form provided on the page and click the 'Create Business Time' button to submit the form.



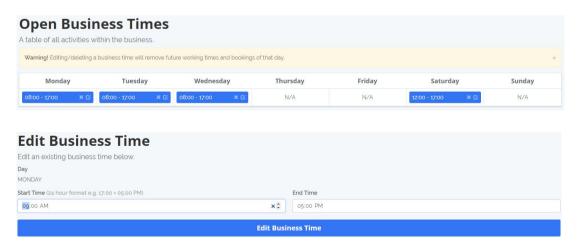
#### **Remove Business Time**

Remove business time by clicking on the 'x' button of a business time.



#### **Edit Business Time**

Click on the edit symbol of a business time to make changes to the business time.



## **View Business Information**

Visit the /admin page to view business information. Business owner must be registered and logged in.

Sample Company: Business Information Logged in as john1233 Logour						
Information	Business Information					
Summary	Details of the business					
History	istory Full Name					
Roster	John Doe					
Employees	Business name					
	Sample Company					
	Phone					
	04310902392					
	Address					
	1 Swan Hill					

## **View Summary of Bookings**

Visit the /admin/summary page to view employee availability. Business owner must be registered and logged in. This action is similar to viewing employee availability since both functions are on the same page.

John's Car Service	e: Sumn	nary of Bo	ookings			Logged	d in as john123	Logout
Information Business Times			ary of			S		
Employees	ID	Customer	Employee	Activity	Start	End	Duration	Date
Roster Activities	1	Jon Wiza	Orville Sauer	Oil Service	11:00	11:30	00:30	28/05/17
Bookings	2	Rupert Beatty	Bernadine Bartell	Oil Service	11:30	12:00	00:30	29/05/17
Summary	6	Joaquin Bernhard	Pattie Watsica	Smash Repair	12:30	18:30	06:00	31/05/17
History		STATUS STATES						

## **View History of Bookings**

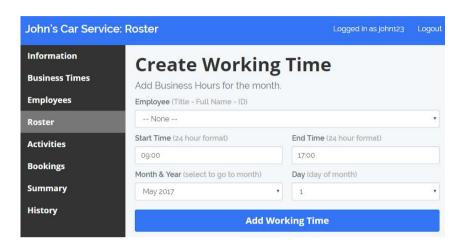
Visit the /admin/history page to view employee availability. Business owner must be registered and logged in.

John's Car Service: History						Logged	d in as john123	Logout	
History of Bookings									
Business Times	Present older bookings.								
Employees	ID	Customer	Employee	Activity	Start	End	Duration	Date	
Roster Activities	3	Rupert Beatty	Pattie Watsica	Oil Service	10:30	11:00	00:30	25/05/17	
Bookings	4	Joaquin Bernhard	Bernadine Bartell	Smash Repair	12:30	18:30	06:00	25/05/17	
Summary	5	Joaquin Bernhard	Orville Sauer	Smash Repair	09:30	15:30	06:00	01/05/17	
History			Fa					1	

## **Create Working Time**

Visit the /admin/roster page to add working time. Business owner must be registered and logged in to do the following actions. An employee must exist to create a working time.

Fill out the form provided on the page and click the 'Add Working Time' button to submit the form.



Once the form has been submitted and the input is valid, a new working time is created.

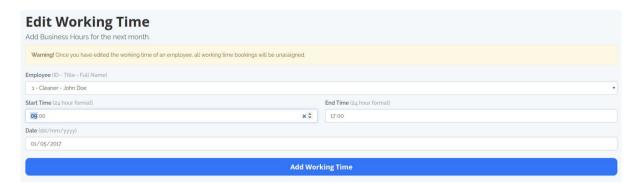
## **Remove Working Time**

Click on the remove icon within the calendar to remove a working time.



#### **Edit Working Time**

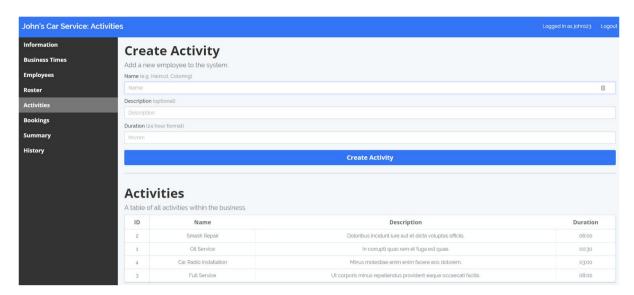
Visit the /admin/roster/[id]/edit page to edit an employee working time. The [id] in the URL selects the working time ID from the database.



Notice the warning show on the image above. Once the working time has been changed, all assigned bookings are unassigned. This will safely make all employees working on proper times.

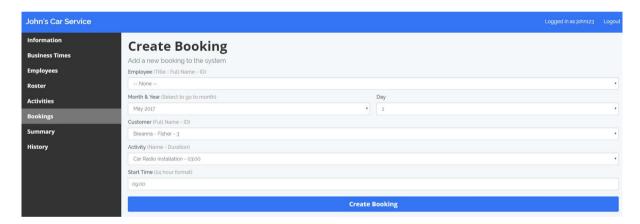
## **Create Activity**

Visit the /admin/activity page to create an activity.



## **Create Booking**

Fill the following form below to create a booking.



Use the employee availability as a reference to create a booking.

