

Software Requirements for SprayIt Web Application

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Introduction

SprayIt is an Internet desktop application developed for users to express their First Amendment rights. Unlike other social media developers, such as Facebook or Twitter, SprayIt does not monitor or report a user's behavior. The application displays users' tweets in a timeline fashion – being the most recent '*spray*' goes to the top of the list – called the Watercooler. A user must first register and/or login to start using our application. The user can delete or edit one of their own '*sprays*' whenever they like, but they are not allowed to do so of any other user. The rest of this documentation will explain the requirements needed to install the application on a server and the requirements of the user to use the application.

Software Requirements

For a developer to deploy our application, they must install it on a server that “has activated support for PHP and that all files ending in .php are handled by PHP”¹. If your server already supports PHP, then there is nothing to be done, the server will automatically parse them for you. If your server does not support PHP, then you will want to install a web server. We recommend either [Apache](#) or [PHP](#).

Our application is designed to be run with a MySQL database. The developer may already have access to a web host that supports MySQL, but if they do not, support and installation instructions can be found on [MySQL](#). In the config file, found in the config folder, be sure to change the host,

username, password, and database name to match the specific needs. The database and its columns can be imported from the `sprayit.sql` file found in the root of the GitHub repository.

Functional Requirements

User must login to create, read, update, or delete '*sprays*'. To do so, the user must first have registered into the system. The user needs a First Name, Last Name, Email, and Password. The database will check for duplicate emails and notify the user either success or failure.

The entire application is dependent on the need for Internet access. Those without so will be unable to access the system.

The web application has been designed with all major browsers in consideration. However, because of browsers different interpretations of CSS, the look and appearance may be different across them. Functionality should remain stable, however.

The application can also be used on mobile browsers, but the site was not designed for them. Again, functionality should be stable, but the look and appearance will change and some functionality, such as navigation and reading messages from the server, may be impossible due to a device's limitations.

Security Requirements

It is highly recommended that the database be backed up routinely. A minimum recommended timeframe would be twice daily.

Industry Terms

Listed below are terms relative to the SprayIt Application. They may be needed to know to properly use and/or understand our application.

- SprayIt – A term meant to express one’s exercise of their First Amendment Rights.
- Spray – The message derived of someone’s SprayIt.
- Title – The topic of the Spray.
- Body – The expression, or message, of the Spray.
- Watercooler – The location of the Sprays.

Works Cited

1. “What Do I Need?” *Php*, www.php.net/manual/en/tutorial.requirements.php . Referenced May 2, 2019.