PaperBulb is a web based publication platform, which enables researches and developers to show their research findings to the world.

The following documents describes all at the platform available functionality. The different implemented functions are numbered for a better overview.

**System Requirements:**

The developed software is designed to be run at Linux based Server only. While testing and developing Ubuntu 14.04.3 LTS and Ubuntu Server 14.04.3 LTS was used. We can only ensure functionality on these systems.

**Installation-Guide:**

1. Install MongoDB (Version 3.0)   
   A installation guide can be found here:  
   https://docs.mongodb.org/v3.0/tutorial/install-mongodb-on-ubuntu/  
   Watch out to choose the right version for your operating system
2. Install Nodejs

The following commands to install Nodejs can be found here:  
<https://nodejs.org/en/download/package-manager/#debian-and-ubuntu-based-linux-distributions>.

We recommend at least version 4.x, which can be installed with the following commands:

curl -sL https://deb.nodesource.com/setup\_4.x | sudo -E bash -  
sudo apt-get install -y nodejs

1. Install LaTeXML (Version 0.8.1)  
   A full installation guide can be found here:  
   http://dlmf.nist.gov/LaTeXML/get.html

In order to simplify the installation you can use a script which can be found at the Github-Repository of this project. Run it as root in your project directory:  
LINK

1. Install R   
   A full installation guide for R can be found at:  
   <https://www.digitalocean.com/community/tutorials/how-to-set-up-r-on-ubuntu-14-04>  
   Follow the steps on the website and pay special attention to install packages as root to prevent possible errors in usage.
2. Install Bower   
   The package manager can be installed by the following command  
   sudo npm install -g bower
3. To install the necessary dependencies run the following commands in the project directory  
   sudo npm install  
   sudo bower install
4. YAY, you successfully installed all the necessary software. There are two steps left before you have a completely running publication platform.

* Start MongoDB
* Start the server running the following command in main directory of the project   
  node server.js

The Server Port is set to “8080”.