**USER MANUAL FOR**

**BUS RESERVATION SYSTEM**

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The Bus reservation system is the a simple to use web based system that helps users to register, find the buses between stops and book tickets, manage upcoming trips. It is like most of the web based reservation systems like Amtrak, Greyhound and Expedia websites, users will find it easy to operate this bus reservation system.

**Required Software’s and Packages:**

To get the best use of this Bus Reservation System it is best to use the along with the same versions of packages and software as mentioned below.

The following are required to run this project.

* Python: A high level programming language for general purpose programming, we will be using python for developing the web interface and connecting with MySQL server using external packages in python.
  + Install Python 3.5 + (Do not run this on Python 2)
  + To install https://www.python.org/downloads/ and download the latest python 3+
  + To verify after installing open Command Prompt and run python, if you go into the Python interpreter then Python has been successfully installed, else troubleshoot the problem.
* Django 1.11.17: A package in python that helps in developing the web interface for the project and connecting with the MySQL server.
  + To install Django first we need to install Python as Django is a package in python
  + To install from command prompt after installing python run “pip install Django”
* MySQL Workbench 6.3: Database design tool that integrates the MySQL Database System, MySQL server, MySQL Notifier.
  + Install all the above mentioned from the MySQL installer
  + To download the installer visit - <https://dev.mysql.com/downloads/workbench/>
  + Install with all the default settings for best experience.
* MySQL-Connector 8.0.5: A package in python to connect the MySQL server with Python. It helps in connecting the Python-Django with MySQL server.
  + To download from command prompt “pip install mysql-connector-python”
* PASSLIB 1.71: A package in python that consists of many encrypting algorithms including the pbkdf2 with sha256 which we use to encrypt the passwords to store in the database.
  + To download and install run “pip install passlib” from the command prompt.
* Google Chrome v60.0+: A browser that is most widely used to browse through the internet in the world.
  + Visit “https://www.google.com/chrome/browser/desktop/index.html” to download the latest version of chrome.
  + The entire project is developed in Chrome and some HTML5 fields and features might not work properly in other browsers.
* Microsoft Windows 7+: An operating system that is popularly used by most people in the world.

**To run the project:**

* Extract the Project file
* Go to the project folder “Reservation System”
* Import the Database in the MySQL workbench. To import the database create a schema with name ‘reservation\_system’ and the import tables and data from the “RS\_Database” folder.
* “pip install passlib” for hashing the passwords.
* In the “busrs” folder edit the “settings.py” file with Python IDLE replace the USER and PASSWORD fields in the DATABASES[‘default’] with the users Username and Password of the MySQL Server
* From the command prompt in the project main folder containing manage.py run “python manage.py runserver”
* Now in the browser open <http://localhost:8000/>signin, for best performance use the latest version of chrome.