
Instruction Manual

for

(P012)University Management System

Version 1.0

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Contents

1	Introduction	3
1.1	Purpose	3
1.2	Scope	3
1.3	Important links	3
2	Installation	4
2.1	Cloning from Git-hub	4
2.2	Database setup	4
2.3	Website setup	4
2.4	db.yaml and .env files	5
2.5	Testing	5

1 Introduction

1.1 Purpose

The primary purpose of this document is to describe the method to install and run the "University management system" locally. It will provide the steps for cloning, setting up database and running website. It will present the current method followed for testing and how to check the coverage.

1.2 Scope

This document will contain detailed explanation and code for setup and testing of the website locally.

1.3 Important links

1. SRS - [srs-document-pdf](#)
2. Design Doc - [design-document-pdf](#)
3. Completely hosted website - <http://softwarep012.pythonanywhere.com>
4. Please use - (Id: 1, Password: 1234) to access any login field.
5. Git repository - <https://github.com/ronnie-36/University-Management-System>

2 Installation

2.1 Cloning from Git-hub

1. Open command prompt / terminal in the folder of your choice.
2. Set up git <https://git-scm.com/downloads>.
3. Run - git clone <https://github.com/ronnie-36/University-Management-System.git>
4. Here link to git repository - <https://github.com/ronnie-36/University-Management-System.git>.

2.2 Database setup

1. Install MySQL shell and workbench.
2. Open university.ddl and populate.sql.
3. Run these sql commands.
4. Test whether database is working through select commands.
5. Rename db.yaml.example as db.yaml.
6. Change MySQL user, password etc.

2.3 Website setup

1. Install python3 [Python 3.7.9](#) and set path variable.
2. cd to root-directory and run
3. pip install -r requirements.txt
4. python app.py // this will run the website on localhost:5000.
5. Open localhost:5000 in your browser.

Note: For windows you can double click **makefile.bat**. It is a automation file which will create a virtual environment and run the website.

2.4 db.yaml and .env files

These files are configuration files which contain MySQL connection parameters, app secret key and admin email for authentication.

Create files similar to **db.yaml.example** and **.env.example**.

These files must be present in the root-directory of the application.

2.5 Testing

Python Libraries used for testing -

1. unittest
2. flask-testing
3. coverage

Testing details-

1. Home section testing (100%) - test.py
2. Admin section testing (97%) - test.py
3. Student section testing (100%) - test_student.py
4. Faculty section testing (97%) - test_faculty.py
5. Auth testing (76%) - test_auth.py

Steps to Run Tests

1. Cd to project root-directory
2. pip install -r requirements.txt
3. coverage run --source models -m unittest discover coverage report
4. coverage html
5. Open htmlcov/index.html file to check coverage