

COURSE REGISTRATION WEBSITE



**Villatoro Marquis
University**

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***Discover Our
University***



USER GUIDE

VILLATORO MARQUIS

January 2023

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USER GUIDE: Introduction

This document describes the user guide for the Villatoro Marquis University website. Villatoro Marquis University also known as VMU is a university founded by Kimberly Villatoro and Benjamin Marquis. The university website was created by the founders themselves and in the following sections, details on how to navigate the website will be described.

USER GUIDE: VMU Website

The VMU website is created using Flask, a Python web framework. The website has the following functionalities:

- Used Model-View-Controller for developing the website application
- The front-end was built using Bootstrap, HTML, and CSS
- Inside the back-end I have created a database using SQLAlchemy with the following tables to store data:

- User, Admin, and Course

The User data application is designed to use the CRUD model which stands for creating, reading, updating, and deleting. 1. Create courses 2. Read data from multiple tables 3. Update student schedule by enrolling or disenrolling from courses and available courses 4. Delete courses

- Password encryption using Bcrypt
- Maintaining a database for registered students, courses, and admin. Users will be able to navigate through the university website to discover more about VMU, it's courses, and how to register, and enroll in courses as students.

USER GUIDE: Website Features

- Home - A welcome page for users. Features information about the University.
- Courses - Displays all courses available at the University. Students who have registered and are logged in are able to enroll and disenroll from courses directly from this page.

- Register - Allows prospective students to create an account in order to sign up for classes.
- Student Portal - Facilitates student's signing in to the website.
 - Logged in students can now view their student account. They can upload an image for their student identification card. They can update their profiles to add their first and last name or change their profile picture.
- Admin Portal - Facilitates the needs of the website administrators. It allows the administrators to create or delete courses, and to view students and their course loads.


USER GUIDE: System Requirements



Villatoro Marquis University website will be deployed using render, a cloud application hosting service. This means the website is operating system independent. However, for best user experience, it is strongly encouraged to have the latest software installed by the user prior to navigating to our website.

USER GUIDE: Creating User Account

When you navigate to the link provided for our university website, you will need to register as a student to access certain pages. Within the register page you will be asked to fill in a username, email, password, and confirm that password. Upon successful registration you will be able to use your credentials to login to our Student Portal.



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Register Page

Username

Email

Password

Confirm Password


Create Account

Blog template built for [Bootstrap](#) by [@mdo](#).
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Image 1: Student Register Page

USER GUIDE: Login to Student Portal

After you have successfully registered, you will be navigated to the Student Portal page where you can login as a student with the email and password used to register. This information is stored and protected by encryption within a database that can only be accessed by an administrator.



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Student Portal

Email

newstudentaccountdemo@gmail.com

Password

.....

Sign in

Blog template built for [Bootstrap](#) by [@mdo](#).
[Back to top](#)

Image 2: Student Login Page

USER GUIDE: Student Access

Now that you are successfully registered and logged in as a student, you can now access our enrollment features as well as your student account page. Students at VMU can enroll in the courses provided through the university. Once enrolled in courses, students will have access to their class schedules where they can make modifications as necessary.



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2022-2023 Course Catalog


Course	Description	Faculty Name	
CS140 Python	Learn the fundamental design and problem-solving techniques of Python programming	C. Woods	Enroll
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	Enroll
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	Enroll
CS300 Data Structures and Analysis	Learn and study the applications of data structures.	B. Mark	Enroll
CS395 Object-Oriented and Concurrent Programming	Build on concepts of objects by mastering the functional language features of OOP programming languages.	J. Foulkes	Enroll
CS410 Computer Graphics	Project-based introductory course to computer graphics. Develop programs that render 3D images and models.	J. Sanford	Enroll
CS430 Operating Systems	A study on principles of modern operating systems.	D. Jarc	Enroll

Image 3: Course Enrollment Page


My Schedule

Course	Description	Faculty	Status
CS140 Python	Learn the fundamental design and problem-solving techniques of Python programming	C. Woods	Disenroll
Course	Description	Faculty	Status
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	Disenroll
Course	Description	Faculty	Status
CS300 Data Structures and Analysis	Learn and study the applications of data structures.	B. Mark	Disenroll

Image 4: Student Schedule




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VMU Student Profile



None None
VMU Student

Username: NewStudentDemo

Email:
newstudentaccountdemo@gmail.com

Student Information

Full Name	None None
Email	newstudentaccountdemo@gmail.com
Enrollment Date	01/02/2023

Image 5: Student Profile

Update Account

First Name

Last Name

Update Profile Picture No file chosen

Image 6: Update account

Your student account can be accessed via the My Account page on the menu. Here you can access your student identification card. Update your account to show first and last name. Optionally you can also update your student ID picture.

USER GUIDE: Administrator Access

An administrator account is provided by VMU with login credentials for Admin access. Navigate to the Faculty page on our website's menu and use the credentials provided to login. Once you are logged in as an administrator, you will have access to the database that has stored the information of all the students and courses of the university. Here you can create new courses and delete old ones.

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Administration

Email

Password

Image 7: Admin Login Page

Create Courses

Course Name

Description

Professor Name

Image 8: Create Course Tool

Students

Name	Email
RealUsername	RealUser@gmail.com
NewStudentDemo	newstudentaccountdemo@gmail.com

Image 8: Students Enrolled

Courses

Name	Description	Faculty Name	
CS140 Python	Learn the fundamental design and problem-solving techniques of Python programming	C. Woods	Delete
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	Delete
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	Delete
CS300 Data Structures and Analysis	Learn and study the applications of data structures.	B. Mark	Delete
CS395 Object-Oriented and Concurrent Programming	Build on concepts of objects by mastering the functional language features of OOP programming languages.	J. Foulkes	Delete
CS410 Computer Graphics	Project-based introductory course to computer graphics. Develop programs that render 3D images and models.	J. Sanford	Delete
CS430 Operating Systems	A study on principles of modern operating systems.	D. Jarc	Delete

Image 9: Courses Created and Delete

Students – Courses

Name	Courses		
RealUsername	CS150 Introduction to Computer Science	CS300 Data Structures and Analysis	
NewStudentDemo	CS140 Python	CS150 Introduction to Computer Science	CS300 Data Structures and Analysis

Image 10: Students and their course schedules

USER GUIDE: Exiting the Application

For safety precautions, log out of which ever account you are currently logged into (either as a student or admin). This will allow the application to save your changes and then simply exit out of the tab or window you are currently in.