COURSE REGISTRATION WEBSITE



Discover Our University



USER GUIDE

VILLATORO MARQUIS

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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.

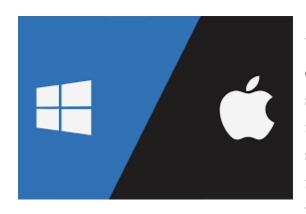
USER GUIDE: Website Features

- 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.

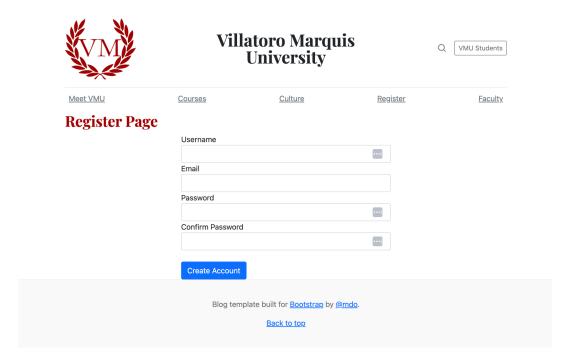


Image 1: Student Register Page

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.

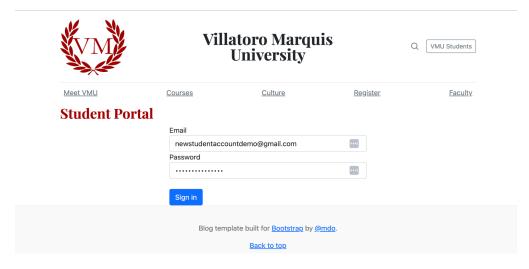


Image 2: Student Login Page

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.



Villatoro Marquis University

Q Log Out

Meet VMU	Courses	<u>Culture</u>	My Account
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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	<u>Enroll</u>
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	<u>Enroll</u>
CS150 Introduction to Computer Science	An entry-level course to computer programming. Learn concepts and tools of computer science and computer programming.	W. Chasser	<u>Enroll</u>
CS300 Data Structures and Analysis	Learn and study the applications of data structures.	B. Mark	<u>Enroll</u>
CS395 Object-Oriented and Concurrent Programming	Build on concepts of objects by mastering the functional language features of OOP programming languages.	J. Foulkes	<u>Enroll</u>
CS410 Computer Graphics	Project-based introductory course to computer graphics. Develop programs that render 3D images and models.	J. Sanford	<u>Enroll</u>
CS430 Operating Systems	A study on principles of modern operating systems.	D. Jarc	<u>Enroll</u>

Image 3: Course Enrollment Page

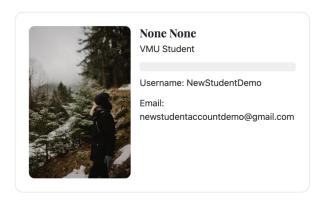
My Schedule

Course	Description	Faculty	Status
CS140 Python	Learn the fundamental design and problem-solving techniques of Python programming	C. Woods	<u>Disenroll</u>
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	<u>Disenroll</u>
Course	Description	Faculty	Status
CS300 Data Structures and Analysis	Learn and study the applications of data structures.	B. Mark	<u>Disenroll</u>

Image 4: Student Schedule



VMU Student Profile



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 Choose File No file chosen	
Update	

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.

Meet VMU	Courses	Culture	Register	<u>Faculty</u>
Administration				
	Email			
			•••1	
	Password			
			•••	
	Sign in			

Image 7: Admin Login Page

Create Courses

Course Name
Description
Professor Name
Create Course

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

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.