**NUEVA VIZCAYA STATE UNIVERSITY**



Bambang, Nueva Vizcaya 3702

**COLLEGE OF INDUSTRIAL TECHNOLOGY**

Information Technology Department

**Dormitory Information and Monitoring System**

A Capstone Project Proposal

**Dan Vincent Angelo L. Necosia**

**Beth A. Matis**

**Beverly C. Orencia**

May 2022

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| **Title**  **Dormitory Information and Monitoring System** | | | |
| **Type**  Web Application | | | |
| **Proponents**   1. Dan Vincent Angelo L. Necosia 2. Beth A. Matis 3. Beverly C. Orencia | | | |
| **Rationale**  Web-based systems are commonly used by many organizations to reach their users and make transactions as easy as possible. Nowadays organizations should have an automated system that can accommodate the needs of every user.  Nueva Vizcaya State University’s Dormitory is one of the few organizations that still uses the old manual process. The problem of sticking to manual processes is that the transactions are very slow, time consuming and often prone to human error. Managing the activities inside of the dormitory is very challenging because of the large number of tenants.  The main purpose of this project is to develop a web-based Dormitory Information and Monitoring System that will replace the manual monitoring system. This project will be more effective in managing all the transactions and activities inside the organization. Also, this project will help the University in accreditation purposes by having an organize tenant’s record. | | | |
| **Functionality** | | | |
| **ID** | **Type** | **Function** | **Priority** |
|  | FR | Admin can login to their account | M |
|  | FR |  |  |
|  | FR | Admin can manage all users |  |
|  | FR | Admin can approve the applications for tenants |  |
|  | FR | Admin can view the tenant’s profile |  |
|  | FR | Admin can view the inventory of the tenants’ belongings |  |
|  | FR | Admin can print all the forms |  |
|  | FR | Admin can post meeting for the organization |  |
|  | FR |  |  |
|  | FR |  |  |
|  | FR | Tenants can submit a leave pass |  |
|  | FR | Tenants can submit an evaluation form |  |
|  | FR | Tenants can a picture of the receipt from the cashier |  |
|  | FR |  |  |
|  | FR |  |  |
|  | FR | Visitors should apply for |  |
|  | FR |  |  |
|  | FR |  |  |
|  | FR |  |  |
|  | FR | Visitors can submit an evaluation form |  |
|  | FR |  |  |
|  | FR |  |  |
|  | FR |  |  |
|  | FR | Applicants can submit an application form to be evaluated by the admin |  |
| Legend: M – Must Have, S – Should Have, C – Could Have, W – Won’t Have | | | |
| **Expected Value**   1. **Tangible Value** 2. 15% increase in the number of domestic tourists 3. 5% increase in the number of international tourists 4. **Intangible Value** 5. Lessens the paper work of the Dormitory manager | | | |
| **Feasibility**   1. **Operational**   The project will require at least three people to use the management dashboard and these users have displayed interest to be trained. The web application can be easily integrated in the normal operation of the organization.   1. **Technical**   The project can be pursued given the current technical resources of the organization. However, new hardware is required for the full operation of the project.   1. **Economic**   The project will require the acquisition of additional hardware that are not readily available in the organization and the operation of the project will need web hosting with domain name subscription. Regarding these matters, the client will look for funding as they are very much willing to invest on this project.   1. **Schedule**   The project will start on the first week of March and end on the second week of December with a total of 38 weeks. | | | |
| **Development Plan**   1. **Methodology**   The project team will make use of different **Agile Software Development**methodologies.   1. SCRUM 2. Extreme Programming 3. Test-Driven Development 4. **Target Platform** 5. Cross-Platform (Windows, MacOS, Android, iOS, Linux Distro etc.) 6. Web Browser Access, Chromium-Based preferred 7. **Software Architecture** 8. Web Application 9. Client-Server Application 10. Model-View-Controller 11. **Development Software** 12. Programming Language: HTML, CSS, JavaScript, PHP, SQL 13. Development Environment: Visual Studio Code, Laragon 14. Database Engine: MySQL Server 5.7 15. Other Technologies: 16. **Development Hardware** 17. Development Machines (Laptop) 18. **Expected Deliverables** 19. Front-End Application 20. Back-End Application 21. User Manual | | | |

**APPENDIX A**

**Client Profile**

<Place History, Vision, Mission, Photo of the Client / Organization>

**APPENDIX B**

**Business Process Model / Current System**

<Place the Business Process Model of the Client>

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Information Technology Department

**VizTour: AN ONLINE TOURISM APPLICATION FOR THE PROVINCE OF NUEVA VIZCAYA**

A Capstone Project Proposal

by

**LORENA A. PAULINO**

**JOEY BOY I. PASCUA**

**JENNA FAYE R. LICLICAN**

**GESHELLE A. TANGO**

May 2022

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| --- | --- | --- | --- |
| **Title**  [Archivar](https://www.spanishdict.com/translate/archivar): NVSU Web-Based Capstone Project Archiving System | | | |
| **Type**  Web Application | | | |
| **Proponents**   1. Dan Vincent Angelo L. Necosia 2. Beth A. Matis 3. Beverly C. Orencia | | | |
| **Rationale**  Technological advancement has a very large impact especially on healthcare systems. Having good data management plus the ease of access gives convenience to both healthcare practitioners and its patients. In addition, the need for securing confidential information must take place in order to protect doctor-patient confidentiality. Also, an additional layer of security gives assurance that the data is consistent and accurate.  Today’s healthcare systems use paper records or electronic health records, but the way of authentication is slow and inconvenient because “You have to be there physically” to access the data. With the help of facial recognition, the healthcare system will have a faster and well-aimed identification method. It will also improve practitioner-patient relationship, ensure that the correct patient is being treated, secure access to medical software and database, Access to classified clinical and medical information. Also, receptionists will Know that the patient file is correct. Avoid the risk of duplicate patient files. At last, it prevents identity theft, Improved patient experience, Increased trust in the practice, Increased security of classified personal information.  Discuss why this is a problem for the client.  Discuss the current solutions / methods / tools / technologies / systems 2fa  Discuss your proposed solution. Facial recognition  Discuss why the project is worth pursuing. | | | |
| **Functionality**  Admin Login  Admin can add delete update patient and medical staff to the system  Medical staff can browse medical all active patient’s data  Medical staff can add di  Patient can only browse his/her own data | | | |
| **ID** | **Type** | **Function** | **Priority** |
| 1 | FR | Admin Features of Online Healthcare Management System in Django |  |
| 3 | FR | Register Page– The page where new admin created their login credentials for the website. | M |
| 4 | FR | Login Page – The page where the system admin enters their system credentials in order to gain access to the system’s admin side. | M |
| 5 | FR | Manage Doctor Page – The page where the admin can view, register and approve doctor request. | S |
| 6 | FR | Manage Patient Page – The page where the admin can view record of the patient, admit patient, approved patient request and can discharge patient. | S |
| 7 | FR | Appointment Management Page – The page where the admin can view appointment, view book appointment and can approved appointment of the patient | C |
| 9 | FR | Patient Features of Online Healthcare Management System in Django |  |
| 10 | FR | Register Page– The page where new patient created their login credentials for the website. | M |
|  |  | Login Page – The page where the system patient enters their system credentials in order to gain access to the system’s patient side. | M |
|  |  | View Appointment Page – The page where the patient can view their appointment through online | S |
|  |  | Book Appointment Page – The page where the patient can book their appointment through online. | S |
|  |  | Manage Discharge Page – The page where the patient can view discharge payment and can download their receipt. | C |
|  |  |  |  |
|  |  | Doctor Features of Online Healthcare Management System in Django |  |
|  |  | Register Page– The page where new doctor created their login credentials for the website. | M |
|  |  | Login Page – The page where the system doctor enters their system credentials in order to gain access to the system’s doctors’ side. | M |
|  |  | View Patient Page – The page where the doctor can view patient record and discharge patient record. | S |
|  |  | Manage Appointment Page – The page where the patient can view and delete patient appointment records. | C |
|  |  | Manage Discharge Page – The page where the patient can view discharge payment and can download their receipt. | S |
| Legend: M – Must Have, S – Should Have, C – Could Have, W – Won’t Have | | | |
| **Expected Value**   1. **Tangible Value** 2. 15% increase in the number of domestic tourists 3. 5% increase in the number of international tourists 4. **Intangible Value** 5. Promotion of Nueva Vizcaya as a tourist destination. | | | |
| **Feasibility**   1. **Operational**   The project will require at least three people to use the management dashboard and these users have displayed interest to be trained. The web application can be easily integrated in the normal operation of the organization.   1. **Technical**   The project can be pursued given the current technical resources of the organization. However, new hardware is required for the full operation of the project.   1. **Economic**   The project will require the acquisition of additional hardware that are not readily available in the organization and the operation of the project will need web hosting with domain name subscription. Regarding these matters, the client will look for funding as they are very much willing to invest on this project.   1. **Schedule**   The project will start on the first week of March and end on the second week of December with a total of 38 weeks. | | | |
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