**Capstone Project Title Approval Form**

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| **Group Code: NDS3C-04**  **Proponents** | | | |
| **Project Leader:** June Charles Mariquit | | | |
| **Group Members:**  Daniela Marquez  Rubylyn Rey  Jayron Sadian | | | |
| **Proposed Capstone Project Title** | | | |
| Advanced Online Proctoring Solution for Academic Integrity | | | |
| **Name and Contact No. or Target Organization** | | | |
| College of Information and Computing Sciences(CICS) | | | |
| **Platform** | | | |
| Web-base/Mobile Aplication/SQL database | | | |
| **Background of the Organization/Firm/Target Pilot Area** | | | |
| **Background of the Organization/Firm:**  The College of Information and Computing Sciences (CICS) at Marinduque State College prioritizes maintaining fairness and honesty in exams through its commitment to academic integrity. With a focus on information technology and computing sciences, CICS prepares students for success in the digital world.  Exploring the implementation of online proctoring solutions is currently underway at CICS. These platform will ensure that exams are conducted securely, fostering an environment where every student's achievements are recognized with fairness and transparency.  By embracing online proctoring technology, CICS reaffirms its commitment to upholding academic integrity and providing a supportive and equitable learning environment for all students, further enhancing the integrity of our academic programs.  **Target Pilot Area:**  During the initial implementation and testing phase of the online proctoring project, the institution plans to focus on deploying the system within a specific pilot area. The pilot area will consist of a selected group of faculty, and students who will actively participate in testing the functionality and usability of the online proctoring platform. Throughout this process, utmost importance will be placed on safeguarding their data and ensuring a seamless user experience. | | | |
| **Problem Statement** | | | |
| ***Problems*** | ***Causes*** | | ***Solutions (As a Feature of your System*** |
| Difficulty in verifying student identity | Absence of reliable identification methods. | | Implement security measures such as facial recognition and open camera while taking the exam |
| Sharing answer through conversation and screenshot | Collaboration for exam completion and seeking answer to their classmates. | | Development of screenshot restrictions. |
| Student searches online for answers during exam. | The student did not review their notes thoroughly, so they resorted to searching online. | | Utilization of plagiarism detection software. |
| The student, in an attempt to access answers quickly, switches tabs and resorts to copying and pasting answers from learning modules. | Seeking external sources for solutions. | | Implement real-time behavior analysis to detect and prevent copy-pasting, and introduce time-limited question sessions to discourage reliance on external materials. |
| **Objectives** | | | |
| The online proctoring system ensure that exams taken online are fair and secure. It aims to prevent cheating and ensure that each student's performance is accurately assessed. | | | |
| ***Specific Objectives*** | | | |
| 1. Implement facial recognition and live proctoring functionality to enable real-time monitoring of online exams, ensuring exam integrity and deterring cheating behavior. 2. Integrate real-time behavior monitoring to uphold exam integrity online. Employ secure features that detect and prevent unauthorized screenshot capture and tab switching during exams. 3. Implemention of plagiarism checker to ensure the originality and integrity of submitted exam answer. 4. Implement timed question sessions to ensure efficient exam completion and deter reliance on external materials for answers. | | | |
| **Specific Functions and Features** | | | |
| 1. **Facial Recognition:** Implement facial recognition technology to verify the identity of students during exams, ensuring that the right person is taking the test. 2. **Automated Alerts:** Set up automated alerts for proctors to notify them of any irregularities or potential cheating behavior detected during the exam. 3. **Proctor Intervention:** Enable proctors to intervene in real time if they observe any suspicious behavior or violations of exam rules, such as unauthorized assistance or access to prohibited materials. 4. **Recording and Playback:** Record live proctoring sessions for review and analysis, allowing faculty to investigate any reported incidents or disputes after the exam. 5. **Privacy Protection:** Implement measures to protect student privacy during live proctoring, such as blurring background details or masking sensitive information on screen shares. 6. **Compliance Reporting:** Generate comprehensive reports on live proctoring activities, including attendance records, incident logs, and compliance metrics, to ensure adherence to exam regulations and standards. | | | |
| **Significance and Possible Users** | | | |
| Enhancing exam integrity and accessibility through online proctoring, with potential users including faculty and students. | | | |
| **Level of Feasibility** | | | |
| **Technical Feasibility:**   1. **System Compatibility:** must work on various devices and browsers. 2. **Scalability:** The system should handle many users without issues. 3. **Integration:** It needs to integrate with existing systems smoothly. 4. **Security:** Strong measures are needed to protect data and prevent breaches. 5. **Facial Recognition:** Facial recognition tech must be reliable and secure.   **Operational Feasibility:**   1. **User Training:** Provide clear instructions and support for users. 2. **Proctoring Procedures:** Establish and communicate clear protocols. 3. **Regulatory Compliance:** Ensure adherence to privacy and accessibility laws. 4. **Resource Allocation:** Allocate sufficient resources for implementation and maintenance. 5. **Stakeholder Engagement:** Obtain support from key stakeholders for successful adoption. | | | |
| **For Review Committee Only** | | | |
| **Comments:** | | | |
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| Status:  ☐ For Revision  ☐ Approved  ☐ Disapproved | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature Over Printed Name | |

**Note:** You may attach the results of your survey and feasibility analysis, if needed.