**Project Title: NUML Student Facilitation and Chatbot**

# Institution Details

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| **Province** | Federal Capital | **City** | Islamabad |
| **Institution** | National University of Modern Languages | **Campus** | Main |
| **Department** | Software Engineering | **Degree Level** | BS Software engineering |
| **Degree Program** | Software Engineering | **Telephone** | 051-9265100 |
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**Supervisor Details**

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| **Designation** | Lecturer | **Qualification** | MS Information Technology, NUST, Islamabad, Pakistan. 2007  MSc. Computer Science, PUCIT, Lahore, Pakistan. 2004  M.Sc. Mathematics, FCC, Lahore, Pakistan. 1999 |

**Head of Department Details**

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**Project Group Details**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Team Lead** | **Team Member's Name** | **Team Member's Mobile** | **Team Member's Email** | **Team Member's Institution Registration Number** | **Team Member's Year of Study** | **Team Member's Semester** | **Team Member's CNIC** |
| **✓** | Yousaf Zubair | 0335-5590926 | [mianyousafzubair@gmail.com](mailto:mianyousafzubair@gmail.com) | ML-FL17/BSSE-823 | 2017-2021 | 7th | 37405-7363953-9 |
|  | Muhammad Ali | 0303-5659856 | <ali39457@gmail.com> | ML-FL17/BSSE-820 | 2017-2021 | 7th | 37405-8333683-7 |
|  | Zohaib Muhammad Ejaz | 0316-5135969 | <zaibz6238@gmail.com> | ML-  FL-17/BSSE-825 | 2017-2021 | 7th | 37405-9603776-3 |
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**Project Details**

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| **Project Title** | NUML Student Facilitation and Chatbot | | |
| **Project Area of Specialization** | Web based management system | | |
| **Project Start Date** | 25 October,2020 | **Project End Date** | April 2021 |
| **Project Summary (less than 2500 characters)** | NUML Student Facilitation and Chatbot is an online web based management system, This proposed system will have three ends clerk staff, coordinator and student. All of these will perform different duties but dependent on each other. This proposed system will help coordinator, clerical staff and students from where they can manage many these time taking processes. This proposed system will also have a chatbot. The chatbot can be used by random users or students to get their queries responded easily from the website for Software Engineering Department in English language. The software engineering department enquiry chatbot has the capability to make friendly conversations, respond the course and faculty details, give the link for the academic calendar; answer the frequently asked questions, calculate the fees based on the student's input and give the timings, address, contacts, and events information of the software engineering department. | | |

## Project Objectives (less than 2500 characters)

The objective of our proposed system is to design a web based application

for facilitation of students and system will have chatbot to answer the quires of

students, which can support ease to the user to know about the software

engineering department basic queries to the user, i.e. (What is the semester fee?

What is the criteria for the admission in NUML? Etc.).

## Project Implementation Method (less than 2500 characters)

Our project will be implemented using Microsoft visual studio 2017, using bot services of Microsoft azure and our system’s chatbot will be trained using questions and their answers from admin staff of software engineering department NUML. The management system will be created using HTML and CSS in which we will have login pages for student, admin and coordinator. If anyone wants to access the files and other documents, he/she have to first login to the system first.

## Benefits of the Project (less than 2500 characters)

* It helps to provide ease to students.
* Improved Communication with admin staff via chatbot.
* Can be accessed by all parties involved in major modules.
* Reduction of Human Labor, Papers and Workload.
* Improves the General Comfort of Staffs.
* Redundant human errors.

## Technical Details of Final Deliverable (less than 2500 characters)

* Our proposed system is a web-based system.
* It requires internet availability to access it.
* The interface of the system will be kept, as simple.
* There will be three login pages required (for student, admin, and clerical staff).
* Using a chatbot for queries of students will be a step towards automating the system.
* Our system will replace these duties of coordinator.
* Admin can access the chatbot and can update chatbot, news and notification and timetable
* Admin can approve student leave and generate the roll no slips of the students.
* Admin can check the feedbacks of the students and can update the chatbot.
* Students can login the system and ask their queries.
* Students can verify their uploaded results and can view their courses.
* Students can send the feedback.
* Students can inquire about fee structure, academic activities, campus timing for department and other queries.
* Clerical staff can login to the system and can add, update, delete student/repeater in class,
* Clerical staff can view the fee status of the students and can send the results to the students.
* Clerical staff can remind the students about their fee submission.
* Chatbot can answer the student queries.
* Chatbot can save new queries.

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| **Final Deliverable of the Project** | A Student management system for NUML SE Department with login module for students, coordinator and admin staff along with working and answerable chatbot. |
| **Type of Industry** | Education Management System. |
| **Technologies** | WEB, Python |
| **Sustainable Development Goals** | * Ease of use for students and management. * Quick communication between users and admin. * Automation of manual transactions like fee verification and roll number slip generation. |

# Project Key Milestones

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| **Elapsed time in (days or weeks or month or quarter) since start of the project** | **Milestone** | **Deliverable** |
| Month 1 | Proposal and Presentation | Proposal Document |
| Month 2 | Requirement Gathering |  |
| Month 3 | Development and Report writing | Final Report |
| Month 4 | Development and Report writing | Final Report |
| Month 5 | Development and Report writing | Final Report |
| Month 6 | Testing and Training | Testing and Flaw document |
| Month 7 | Report Finalizing | Final Report for submission |
| Month 8 | Debugging | Final Project for Presentation |

**Project Equipment Details**

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| **Item Name** | **Type** | **No. of Units** | **Per Unit Cost (in Rs)** | **Total (in Rs)** |
| Azure bot services | Software | 1 | $10 (PKR 1600) | $10 (PKR 1600/-) |
| Additional 8 GB ram | Hardware | 1 | 6,000/- | 6,000/- |
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|  |  |  | **Total in (Rs)** | **7,600/-** |

I affirm that all information submitted through this FYP application is correct and complete as to my best knowledge. I further agree that Ignite can approve, reject, defer or cancel this FYP application without mentioning any reason at any stage of NGIRI 2019. Information cannot be changed after submission.