

# Functional Requirement Document

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**Project Title: Econestoga Student Assistant Chatbot (ESAC)**

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## Table of Content

- 1. Introduction
  - 1.1 Purpose
  - 1.2 Scope
  - 1.3 Team Details
- 2. Functional Requirement

## 1.0 Introduction

The Econestoga Student Assistant Chatbot (ESAC) aims to facilitate efficient and precise information retrieval for students regarding academic and campus-related inquiries.

### 1.1 Purpose

To create an interactive, accurate, and user-friendly information retrieval system using a chatbot interface to enhance the student experience.

### 1.2 Scope

- Real-time information provision about academic schedules, events, etc.
- Interactive user interface for efficient information retrieval.
- Personalized user interactions and notifications.

### 1.3 Team

Name	Role	Email/Phone
JORGE SABOGAL	Python Developer/Data Engineer/ML & Chatbot Implementation	jsabogaltamayo6485@conestogac.on.ca
JOEL MENDONSA	Python Developer	Jmendonsa8141@conestogac.on.ca
MOULYA BANGALORE PRADEEP	Python Developer	mpradeep3556@conestogac.on.ca

## 2. Functional Requirement

#	Functional Requirement	Category	Notes	Priority	Owner
1	User Interaction	Chatbot	1.1 Natural language interactions. 1.2 Relevant and accurate responses.	HIGH	JORGE SABOGAL
2	Automated Responses	Chatbot	2.1 Provide automated responses for common queries. 2.2 Use ML for response improvement.	HIGH	JORGE SABOGAL
3	User Authentication	Security	3.1 Secure user data. 3.2 Use secure authentication methods.	HIGH	JOEL MENDONSA
4	Data Security	Security	4.1 Encrypt sensitive data. 4.2 Regular security audits.	HIGH	MOULYA BANGALORE PRADEEP
5	User Profile Customization	User	5.1 Allow profile picture uploads. 5.2 Allow data preference settings.	MEDIUM	JOEL MENDONSA
6	Notification System	Alerts	6.1 Real-time notifications. 6.2 Email notifications.	HIGH	JORGE SABOGAL
7	Content Management	Admin	7.1 Admin can add/update/delete content. 7.2 Content approval workflow.	HIGH	MOULYA BANGALORE PRADEEP
8	User Feedback	Feedback	8.1 User can provide feedback. 8.2 Feedback is stored for analysis.	MEDIUM	JOEL MENDONSA
9	Data Analytics	Data	9.1 Analyze user interactions. 9.2 Use analytics for improvements.	HIGH	JORGE SABOGAL
10	Accessibility	UI/UX	10.1 Ensure	HIGH	MOULYA

			website is accessible. 10.2 Follow WCAG guidelines.		BANGALORE PRADEEP
11	User Support	Support	11.1 Provide FAQs. 11.2 Implement chat support.	HIGH	JOEL MENDONSA
12	Multilingual Support	Language	12.1 Support multiple languages. 12.2 Easy language switching.	MEDIUM	JORGE SABOGAL
13	User Guides	Documentation	13.1 Provide user guides. 13.2 Video tutorials for usage.	MEDIUM	MOULYA BANGALORE PRADEEP
14	User Privacy	Privacy	14.1 Ensure user privacy. 14.2 Clear privacy policy.	HIGH	JOEL MENDONSA
15	User Communication	Communication	15.1 Implement user chat. 15.2 Implement user forums.	MEDIUM	JORGE SABOGAL
16	API Integrations	Integration	16.1 Integrate with necessary APIs. 16.2 Ensure API security.	HIGH	JOEL MENDONSA
17	Admin Controls	Admin	17.1 Provide admin dashboard. 17.2 Admin controls over user accounts.	HIGH	MOULYA BANGALORE PRADEEP
18	Live Updates	Data	18.1 Provide live data updates. 18.2 Notify users of live updates.	HIGH	JOEL MENDONSA
19	User Groups	User	19.1 Implement user groups. 19.2 Provide group communication channels.	MEDIUM	JORGE SABOGAL
20	Event Calendar	Events	20.1 Provide event calendar. 20.2 Notify users of upcoming events.	MEDIUM	MOULYA BANGALORE PRADEEP
21	Third-party	Authentication	21.1 Allow Google	MEDIUM	JOEL

	Login		and Facebook login. 21.2 Ensure security.		MENDONSA
22	User Activity Log	User	22.1 Log user activity. 22.2 Use logs for troubleshooting.	MEDIUM	JORGE SABOGAL
23	Continuous Improvement	Improvement	23.1 Regularly update features. 23.2 Use feedback for improvement.	HIGH	MOULYA BANGALORE PRADEEP