**BeatBard – A Discord Bot**

**MAJOR PROJECT-I**

**(20SSP47)**

Submitted by

**Karthik Chockalingam V**

**20MSS017**

Under the Guidance of

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Assistant Professor

Department of Software Systems

In partial fulfillment of the requirements for the award of the degree of

**MASTER OF SCIENCE IN SOFTWARE SYSTEMS**

(Five-Years Integrated Programme)

of Bharathiar University

**DEPARTMENT OF SOFTWARE SYSTEMS**

**PSG COLLEGE OF ARTS & SCIENCE**

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Coimbatore – 641 014

**November 2023**

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**CERTIFICATE**

This is to certify that this project work entitled **“BeatBard – A Discord Bot”** is a bonafide record of work done by **Karthik Chockalingam V (20MSS017)** in partial fulfillment of the requirements for the award of Degree of **Master of Science in Software Systems** (Five years Integrated Course) of Bharathiar University.

Faculty Guide Head of the Department

###### Submitted for Viva-Voce Examination held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Internal Examiner External Examiner

**DECLARATION**

I, **KARTHIK CHOCKALINGAM V (20MSS017)**, hereby declare that this project work entitled **“BeatBard – A Discord Bot”** is submitted to PSG College of Arts &Science, Coimbatore in partial fulfillment of the requirements for the award of the degree of Master of Science in Software Systems, is a record of original work done by me under the supervision and guidance of **Dr. G. S. KARTHICK., M.Sc., DCM., NET., Ph.D,** Assistant Professor, Department of Software Systems, PSG College of Arts &Science, Coimbatore.

This report has not been submitted by me for the award of any other Degree/ Diploma/ Associate ship/ Fellowship or any other similar degree to any other university.

**Place: Coimbatore Karthik Chockalingam V**

**Date: (20MSS017)**

**ACKNOWLEDGEMENT**

My venture stands imperfect without dedicating my gratitude to a few people who have contributed a lot towards the victorious completion for my project work.

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I convey my heartiest and passionate sense of thankfulness to my project guide **Dr. G. S. KARTHICK., M.Sc., DCM., NET., Ph.D., Assistant Professor**, Department of Software Systems, for her timely suggestion which enabled me in completing the project successfully.

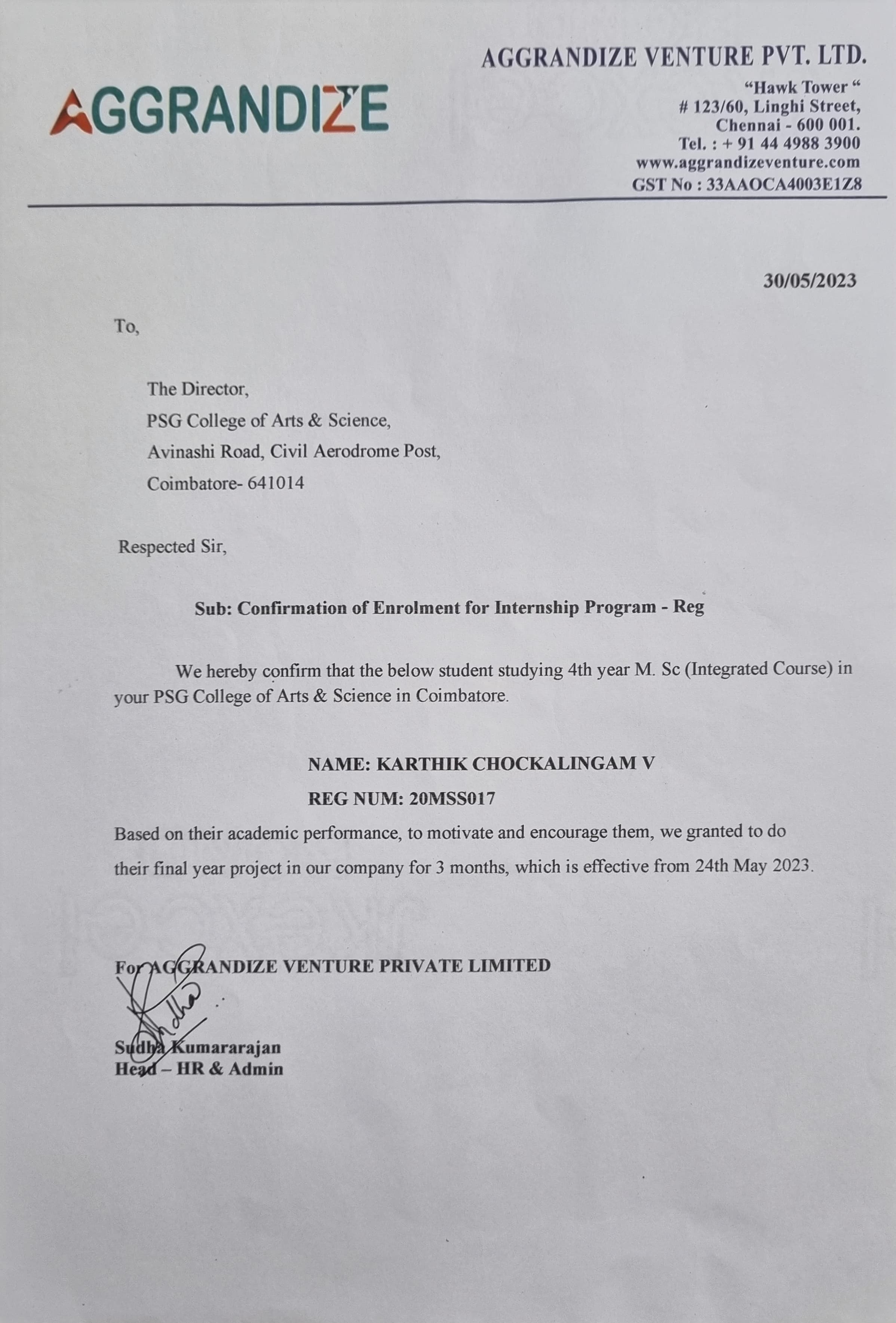
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This note of acknowledgement will be incomplete without paying my heartful devotion to my parents, my friends and other people, for their blessings, encouragement, financial support and the patience, without which it would have been impossible for me to complete the job.

**KARTHIK CHOCKALINGAM V**

**20MSS017**

**INTERNSHIP OFFER LETTER**



**INTERNSHIP COMPLETION LETTER**

**SYNPOSIS**

**BeatBard - A Discord Bot** is an automated bot entailed for augmenting user experience and analytics on an instant messaging and VoIP social network. The Bot's primary objective is to foster greater engagement with the community and track trends.

The bot will employ the discord.py package, which provides a basic interface for interacting with Discord's Application Interface. The Bot is built using the Discord Developer Portal. The bot creation process comprises the development of a new bot token that is distinctive and unique to each one, in addition to the initial configuration of permissions.

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1. **INTRODUCTION**

**1.1 PROJECT OVERVIEW**

**Discord** is an instant messaging and VoIP social platform used to communicate with voice calls, video calls, text messaging, media and files in private chats or as part of communities called **"servers".** A server is a collection of persistent chat rooms and voice channels which can be accessed via invite links.

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The primary focus of the project is to devise and conduct a range of features that encourage community participation and simplify **administrative tasks**. The bot will be able to provide channel moderating, user management, music services, and customized commands and responds. To further improve the bot's competence, it will facilitate integrating additional **APIs** and leverage Python's large ecosystem of libraries. This could imply integrating music streaming services and inspirational quotes services.

**1.2 MODULE DESCRIPTION**

* **Input Module:**
  + **Events**

Discord bot events are like notifications that tell your bot when something interesting happens on a Discord server like,

* + - User Joined,
    - User Left,
    - Role Changes,
    - Bans and Kicks,
    - Bot Ready
  + **Commands**

Discord bot commands are like magic words that you can type to make your bot do things like

* + - Trigger
    - Response
    - Prefix
    - Help
    - Bot Ready etc.
  + **Tokens**

Discord bot tokens are like secret keys that grant your bot access to the Discord platform. Secret Key and API Key are the keys used in this project.

* **Output Module:**
  + **Message Output**

The most common form of output for a Discord bot is sending text messages to text channels within a Discord server.

* + **Voice Output**

If the bot is used for music or voice-related functions, the output might involve the bot joining a voice channel and playing audio.

* + **Direct Messages (DMs)**

Bots can send direct messages to specific users, providing personalized information or responses.

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