# **Introduction**

The field of study that focuses on the interactions between human language and computers is called Natural Language Processing, or NLP for short. It sits at the intersection of computer science, artificial intelligence, and computational linguistics. The users need to interact with the Website Designer Bot(WDB) using natural language like English which will be processed and used to identify the intent of the user, or what the user means. Using this we can determine what kind of website the user requires and thus identify the perfect templates for the same. Continuing this format, we can determine all the add-ons the user desires that will make a fully-functional website. Apart from NLP, our project uses the generalized concept of Agent in A.I. to determine the template which it needs to search based on the processing of language of the user and then display them for the user to choose.

## **1.1 Motivation**

The Internet is everything in today’s world: the tabloid, the newspaper, advertisement agency, etc. Presence on the Internet defines our connection to the outside social world whether it is using Facebook or our own websites. While the former is very easy to get onto, the latter might require some skills and knowledge in order to be established. This is where the problem lies as not everybody is going to be an expert in Web Development or even know the basic concepts behind designing a website. Other reason could be our limited time. Unlike Blogger or WordSpace, which still requires us to have some idea about implementation, the WDB can build all the basic blocks of the website just by conversing with the user. User can have their requirements at the back of their minds and then choose from the wide variety of options present to customize their website to the fullest extent. Thus, the main purpose of user-friendliness is fulfilled using the Chatbot and nobody has to be a genius at website designing to accomplish it.

## 

## **1.2 Previous Work**

1.2.1 Heek

Heek is a conversational website builder. It helps individuals create their website by chatting over text and answering questions. The platform has a conversational interface where chat bots asks questions about the users, the type of business they have, and their sites. Heek is easy-to-use. It also offers a variety of templates where users can choose for their websites. It was developed by Nicholas Fayon who founded Heek at Paris, Ile-de-France, France in the year 2015. They also offer hosting and a custom domain name for a modest monthly fee or subscription.

1.2.2 Wix ADI

The Wix Artificial Design Intelligence uses A.I. to design websites for small businesses and personal websites like Heek. Wix is a cloud-based web development platform created by Nitzan Achsaf. Wix ADI was unveiled in June 2016. Wix ADI is the world's first technology platform that combines website design and content creation with artificial intelligence to enable complete websites to be created. To get started, users are asked a series of questions. The first question is what category your business falls into. Then, users are asked if their business has an existing online presence, so the tool can find information automatically and pull it in. Finally, ADI asks about a user's design preferences and what he or she wants the site to look and feel like. Then, after a few minutes, the user is presented with a custom homepage.

## 

## **1.3 Applications**

1.3.1 Building personal websites from scratch in matter of minutes -

Social presence is important and what better way to accomplish this is by using your own website, apart from Facebook or Twitter pages. Unlike Facebook, personal websites are customizable to the core and reflects more of ourselves.

1.3.2 Establishing small scale business(SMB) -

The major chunk of motivation for the project comes from this domain. A small scale business requires the boost a website can provide to flourish. Internet is accessible to everyone and it is the best form of advertisement possible in today’s time. Services like retail, information about products and services provided can be highlighted and make it easier for people to get to know your company or business.

1.3.3 Advertising -

Anyone can advertise themselves or their companies on the world’s largest platform. Meeting new clients, connecting with new business partners becomes much easier.

1.3.4 Connecting with Clients/Partners –

Advertising your website along with contact details and services like email enquiry have made this means of advertisement most convenient and helpful. You can integrate such features in your website to give people better way to connect with yourself and your company.

## 

## **1.4 Organization of Report**

The report is divided into 8 chapters . Each chapter has different sections along with its explanations.

Chapter 1 : Introduction

* This part introduces to the concept of the WDB. The motivation to develop this project and previous work done in this domain are listed.
* Different applications of our system are also shown.

Chapter 2 : Literature Survey

* A literature survey is a text of a scholarly paper, which includes the current knowledge including substantive findings, as well as theoretical and methodological contributions to a particular topic
* The findings of different papers based on/related to Website Designer Bot are summarized in this chapter.

Chapter 3: Requirement Analysis

* Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product.
* The functional and nonfunctional requirements for the development of the project are listed.

Chapter 4 : Project Design & Implementation

* This part includes overview of methods that can be used to design and implement the system.

Chapter 5 : Technologies Used

* The tools and programming language useful for implementation of the project are specified in this chapter.

.

Chapter 6 : Conclusion and Future Scope

* The concluding remarks and how the project can be continued in the future is described here.

Chapter 7 :

* Different sources and papers used for the development of the project are cited here.

# 

# **Literature Survey**