

## 3-iO PERSONAL ASSISTANT APPLICATION

ARVINDH KUMAR R<sup>1</sup>, ABINAYA R<sup>2</sup>, LIVIN M<sup>3</sup>

<sup>1,2,3</sup>UG Scholar, Department of Computer Science and Engineering, SNS College of Technology, Coimbatore, India.

<sup>4</sup>Assistant Professor, Department of Computer Science and Engineering, SNS College of Technology, Coimbatore, India.

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**Abstract:** A PERSONAL ASSISTANT APPLICATION is an application that performs the job or assists a specific person with their daily business or personal tasks. The role of a personal assistant is to free an executive's time from organizing and administrative tasks so that they can spend maximum time on strategic tasks. Currently this job is developed virtually, which is quietly known as Virtual Assistant. An intelligent virtual assistant (IVA) or intelligent personal assistant (IPA) is a software agent that can perform tasks or services for an individual based on commands or questions. Now a day's many companies have used the various technologies to establish various kinds of VPA's based on their applications and areas such as Microsoft's Cortana, Apple's Siri, Amazon Alexa, Google Assistant, and Facebook's M. However, in this project, have developed the Personal Assistant Application by the Angular, Ionic, and Agile methodologies that produces one of the main features in this application known as 'Expense Calculation' which is not implemented on the above-mentioned applications. Along with this various feature like Notes, Events Tracking, Currency Conversion, Dictionary are also built along with this application. This application can be found in both Android and IOS. The objectives of this project are: Native look and feel, flexible working, fast approach, and mobility of device.

**Keywords:** PERSONAL ASSISTANT, Agile.

### 1. Introduction

As the name suggests, the role of a personal assistant is to free an executive's time from organizing and administrative tasks so that they can spend maximum time on strategic tasks. Sometimes the term "chatbot" is used to refer to virtual assistants generally or specifically accessed by online chat. In some cases, online chat programs are exclusively for entertainment purposes. Some virtual assistants are able to interpret human speech and respond via synthesized voices. An intelligent virtual assistant (IVA) or intelligent personal assistant (IPA) is a software agent that can perform tasks or services for an individual based on commands or questions. Now a day's many companies have used the various technologies to establish various kinds of VPA's based on their applications and areas such as Microsoft's Cortana, Apple's Siri, Amazon Alexa, Google Assistant, and Facebook's M

#### 1.1 App System

A personal assistant, also referred to as personal aide (PA) or personal secretary (PS), is a job title describing a person who assists a specific person with their daily business or personal tasks. The role of a PA is to free an executive's time from organizing and administrative tasks so that they can spend maximum time on strategic tasks. Responsibilities includes acting as a first point of contact, collating and filing expenses, implementing and maintaining procedures/administrative systems, reminding the manager/executive of important tasks and deadlines, keep records of important notes. An intelligent

virtual assistant (IVA) or intelligent personal assistant (IPA) is a software agent that can perform tasks or services for an individual based on commands or questions. Sometimes the term "chatbot" is used to refer to virtual assistants generally or specifically accessed by online chat. In some cases, online chat programs are exclusively for entertainment purposes. Some virtual assistants are able to interpret human speech and respond via synthesized voices. Users can ask their assistants questions, control home automation devices and media playback via voice, and manage other basic tasks such as email, to-do lists, and calendars.

### 2. Literature Survey

1. AngularJS is a popular JavaScript framework based on the model-view-controller pattern to construct single-page web apps. Researchers surveyed 95 professional developers regarding the performance problems of AngularJS applications.
2. Performance engineering is a vital aspect in PL/SQL programming, as most of the Database associated applications are built with PL/SQL Code. There subsists many ways of writing PL/SQL statement to retrieve same result set, but the approach which levies minimum impact on DBMS engine is always esteemed.
3. In this paper, we describe a light-weight Web API creation methodology in order to create Web APIs for enterprise web applications much more easily than we can by extending the source code. The created Web API can connect to the web application just as a client who has an account does.

### 3. Block Diagram

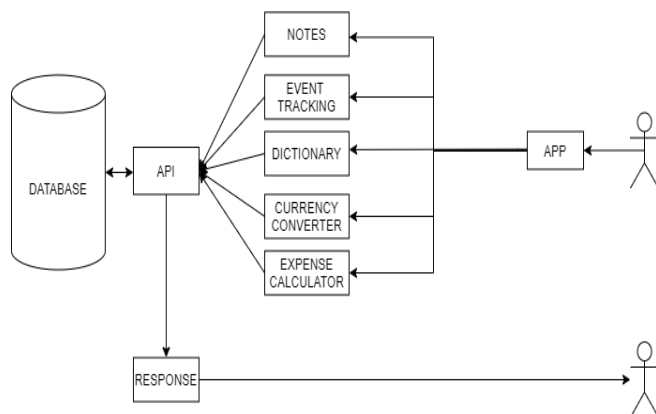


Fig 1. WORK FLOW OF THE APP

### 4. Proposed Solution

Though in order to reduce the manual work an application is created to perform the role of personal assistant in an effective manner with more features added to satisfy the needs of a user. This application can be used as personal secretary, that can assist, by making important notes, expense calculating, currency converting, events tracking, and also dictionary. By using this application, the user receives an advantage of flexible working, accuracy on requests or needs, fast approach, optimize workflow, mobility of the device. Smart assistants have inbuilt security systems that keeps data safe and has also protected privacy.

### 5. Conclusion

This project named as '3iO', assists the user as Personal Secretary and implements various features, appreciated our desire to implement an application that assists our personal tasks. The role of this application is to free a user's time from organizing and administrative tasks so that they can spend maximum time on strategic tasks. By using this application, we receive an advantage of flexible working, accuracy on requests or needs, fast approach, optimize workflow, mobility of the device. Smart assistants have inbuilt security systems that keep your data safe and has also protected privacy. This application works more efficiently. It also acts as user's friendly app, with easy and understandable access to the user.

### 6. Future work

Remote monitoring, speech recognition and natural language processing and predictive analytics using artificial intelligence can also be linked with this app for making a drastic improving the 3iO-PERSONAL ASSISTANT APPLICATION

### 7. Application

1. The last thing you want is to hire a virtual assistant who simply goes through their checklist without truly investing time in producing quality work or putting in extra effort.
2. Of course, no one wants to hire an employee who is untrustworthy, but when working with someone in a virtual capacity, honesty is *more* prevalent than ever. Just like anyone, your VA is bound to make a mistake or error every once in a while.
3. If we were to list out the top five areas a virtual assistant must excel in, multitasking would certainly be one of them. After all, they will likely have multiple projects or tasks on their plate and they must be able to stay organized, keep things moving forward, and juggle multiple clients without breaking a sweat

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