**Performance Activity Document in the financial year 2017-18**

* **POC Name:** Asset Management
* **Job Role:** Developer & Tester
* **Business Case:** Monitoring health of an high value asset like CT Scan machine, elevator motor, etc. which runs 24 x 7 through collecting data from several data points and analyze them continuously so that for any abnormal scenario like breakdown or any sort of malfunction, the downtime will be as less as possible and calculate the lifespan of the system by analyzing the collected data.
* **Tools & Technology:** Sensors, AC Motor, Raspberry Pi 3 Model B, IBM Bluemix Watson IoT, Node Red, Javascript/NodeJs, IoS Application, Bluemix Analytics.
* **Key Responsibilities:**
* Setup the environment by building the circuit, connecting the sensors and controller device with the circuit.
* Collect sensor data, calibrate the values, analyze and send to cloud.
* On cloud platform implement the rule to analyze incoming sensor data and in case of any abnormal scenario, trigger a notification and alert to corresponding responsible persons like supervisor, service technician, etc.
* Collect every minute details of every single malfunction, apply analytics on it to calculate remaining lifespan of the system.
* **POC Name:** Pipe Leakage Detection
* **Job Role:** Developer
* **Business Case:** This use case is mainly implemented for oil and mining industries. This solution intended to detect leakage in pipeline system (if present) through analyzing captured images of the system and trigger an alert to fix the leakage.
* **Client:** Regal Beloit
* **Tools & Technology:** Pipeline images captured by CCTV, IBM Bluemix Cognitive service, Node Red, Javascript/Node Js.
* **Key Responsibilities:**
* Create and train a classifier using pipeline images provided by client.
* Implement the **User Interface (UI)** to upload image and display analysis result using Node Red.
* Implement the logic to upload an image from local system to server, analyze and display result on UI using JavaScript.
* **POC Name:** Warehouse Monitoring
* **Job Role:** Developer
* **Business Case:** This use case is mainly useful for tobacco and food division where raw materials or food products need to be stored in a warehouse and maintained efficiently. Our solution is designed to monitor and control the several warehouse parameters like temperature, humidity, pressure, light, etc. to keep the materials sound and fit for use.
* **Client:** ITC Tobacco & Food Division
* **Tools and Technology:** Sensortag cc2650/cc3200, Raspberry Pi 3 Model B, IBM Bluemix Watson IoT platform, Node Red, Javascrirt/ Node Js.
* **Key Responsibilities:**
* Configure the sensortag device(cc2650/cc3200) to connect with Bluemix cloud plaform.
* Create an **User Interface**(**UI**) on Bluemix to display target warehouse parameters like temperature, humidity, etc. using Node Red. Our UI contains information about following parameters;
* Temperature and Humidity
* Atmospheric Pressure
* Sensortag Battery Level
* Device Location
* Motion related information of attached object
* Implement the logic to fetch the data, push to dashboard, set rules and trigger actions based on some abnormal conditions like if temperature is too high, turn on the cooler or if humidity is less, turn on the blower, etc.(if any).
* **Project Name:** Maya-Digital HR Assistant
* **Job Role:** Developer & Tester
* **Business Case:** Maya is a chatbot. Maya is designed to perform several different operations which are very basic and frequently performed by an administrator or HR of an organization. This chatbot is designed to facilitate basic operations done by an employee by providing an easy interface and thereby reduce the workload of an HR person. Maya is capable of doing following activities;
* Apply leave on behalf of user
* Approve/Revert back pending timesheets of direct reports
* Allowance Details when travelling to overseas
* Answer frequently asked questions/ HRFAQ
* Identify an employee by viewing their photograph
* People Search by PSID or Name
* Who is the Contact Person Service
* User Authentication at beginning of conversation
* Feedback collection from user
* **Client:** Internal
* **Tools and Technology:** Javascript/Node Js, Microsoft Q&A maker, Microsoft Bot Framework, Microsoft LUIS, Microsoft Azure Cloud Platform
* **Key Responsibilities:**
* Design and implement the program logic for leave application.
* Develop the program to identify an employee and display their details.
* Design and implement complete logic and program of HR FAQ.
* Design and implement complete program to approve/sent back timesheet.
* Design and implement the logic to Search Employee by Name/PSID
* Implement the functionality of “**Who Is Contact People**” Service
* Implement program to prompt for user feedback and accept feedback from user.
* Separate every individual functionality into different modules and then integrate the modules.
* **POC Name:** Webgenie Assistant
* **Job Role:** Developer
* **Business Case:** Webgenie Assistant is a chatbot. It is implemented to provide a very simple and easy interface to the employee of the organization to raise service requests, report an incident like **account lockout** and track request status. Our bot is capable of doing following things;
* Raise service request for software installation, providing administrative privilege in system, setup mail client, resize mailbox
* Report incident of account locked out
* Track all open requests raised and view details of all closed request.
* **Client:** Internal
* **Tools and Technology:** Javascript/Node Js, Microsoft Bot Framework
* **Key Responsibilities:**
* Design complete flow of the application.
* Implement the program logic to get required informations from user and raise a service request based on user requirement.
* Implement the logic to track all open request and view all closed requests.
* **POC Name:** Sunfeast Biscuits Assistant
* **Job Role:** Developer and Tester
* **Business Case:** This is a chat assistant. This assistant is designed mainly to answer the questions which are asked by users. This assistant is also capable of giving every minute details like price, quantity, ingredients, etc. about each sunfeast biscuits to users. Also user can raise a complaint or submit a business proposal directly through this chatbot.
* **Client:** ITC Limited Food Division(**Sunfeast**)
* **Tools and Technology:** Javascript/Node Js, Microsoft Bot Framework, Microsoft Azure Cloud Platform
* **Key Responsibilities:**
* Design the structure and flow of entire application.
* Implement the program to accept user query, analyze it whether user is asking a question or wants to know about a product and then answer accordingly.
* Train a backend model with commonly asked questions and answers.
* Implement logic to raise a complaint and submit a business proposal.
* Implement logic to accept user feedback.
* Implement a basic **User Interface** (**UI**) and host the application to azure.
* **POC Name:** Kingfisher PLC Training Guide
* **Job Role:** Developer and Tester
* **Business Case:** Kingfisher PLC has different documents for their employees and vendors. The size of the documents are large so it becomes difficult for the users to go through the entire document and find the exact answer of their query. Our reference guide is a chatbot which accepts user’s query and search through the document for answer. After getting the answer, this guide will take user to appropriate position of the document where the answer of user’s query is present.
* **Client:** Kingfisher PLC
* **Tools and Technology:** Javascript/Node Js, Microsoft Bot Framework, Microsoft Azure Cloud Platform
* **Key Responsibilities:**
* Design the structure and flow of the application.
* Convert the documents into static HTML pages.
* Create index files to search through the document.
* Implement logic to accept user query, search document to find answer of query, display details of the location where actual answer is present and take user to that specific location of document.