

**A Project Report**  
On  
**Invoice Generator**

*Submitted in partial fulfillment of the  
requirement for the award of the degree of*

School of Computing Science and  
Engineering



(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

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**DEC,2021**



**SCHOOL OF COMPUTING SCIENCE AND  
ENGINEERING  
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**CANDIDATE'S DECLARATION**

We hereby certify that the work which is being presented in the project, entitled “**INVOICE GENERATOR**” in partial fulfillment of the requirements for the award of the B-TECH (BACHELOR OF TECHNOLOGY)—submitted in the School of Computing Science and Engineering of Galgotias University, Greater Noida, is an original work carried out during the period of month, Year to Month and Year, under the supervision of Mr. Amit Kumar (Asst. Professor), Department of Computer Science and Engineering/Computer Application and Information and Science, of School of Computing Science and Engineering , Galgotias University, Greater Noida

The matter presented in the project has not been submitted by us for the award of any other degree of this or any other places.

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This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

**Mr. Amit Kumar**

(Asst. professor)

## **CERTIFICATE**

The Final Project Viva-Voce examination of Mohd Adib(19SCSE1010239) and Y Aditya(19SCSE1010024) has been held on \_21/12/21\_ and his/her work is recommended for the award of B-TECH (BACHELOR OF TECHNOLOGY).

**Signature of Examiner(s)**

**Signature of Supervisor(s)**

**Signature of Project Coordinator**

**Signature of Dean**

Date: December , 2021

Place: Greater Noida

## **Abstract**

Generating invoice of a product has always been a hassle when it comes to a business. We have always encountered many problems when customer has to receive a invoice for the purchased good whether it be due to concerns such as generating it correctly, getting it warranted or false tax claims. So we have decided to create an easy to use invoice generator which can create a invoice, get invoice history or to get any invoice by username. This app is mainly concerning the front end using react to create a robust UI and using firebase for the back-end and database. We will host it online on platforms like Heroku or netlify and this web-app will be available to anyone with the URL for free of cost. The main advantage of this app is it is easy-to-use , seamless functionality and free of cost straight to your computer with internet connectivity without any additional requirements.

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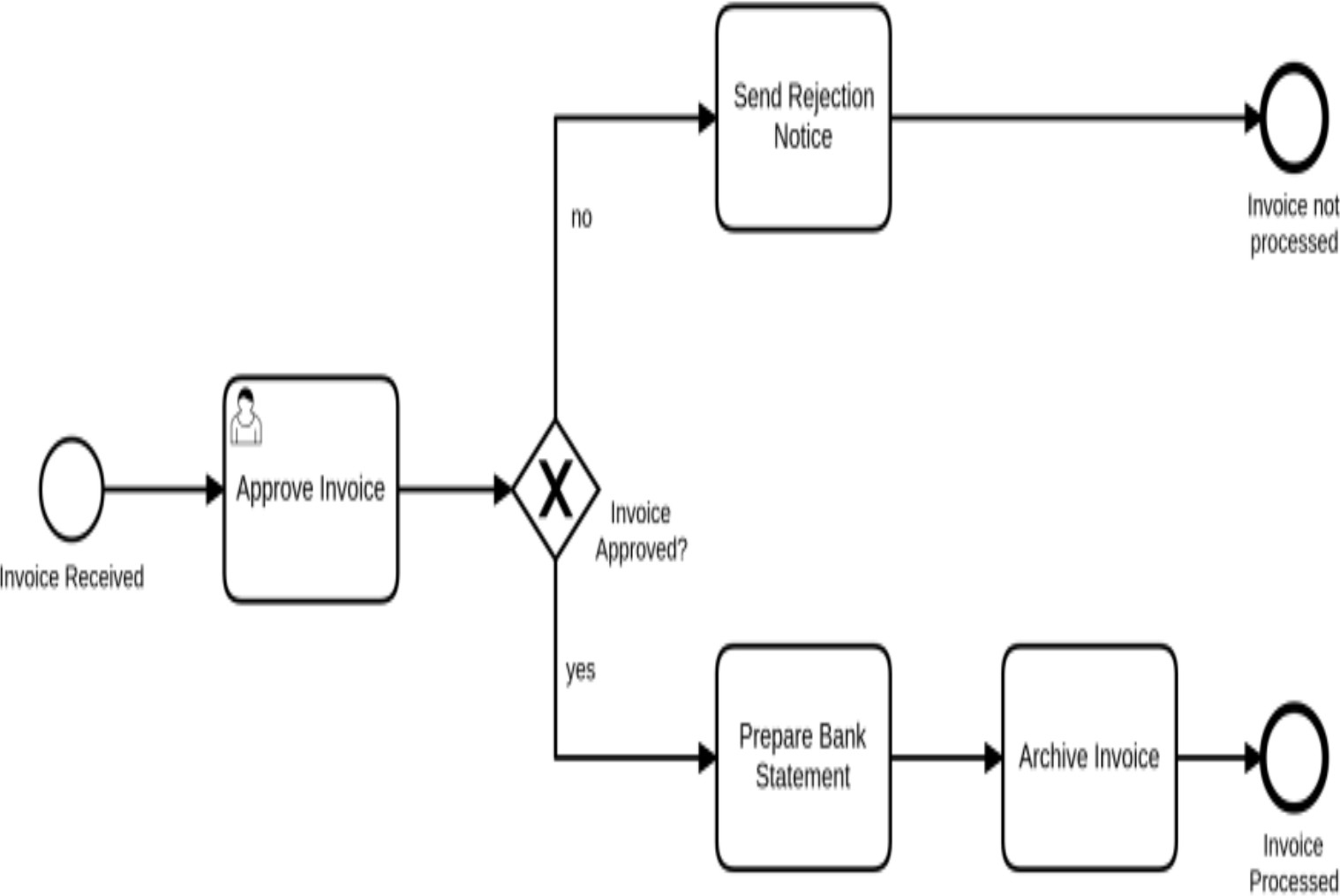
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## INTRODUCTION

The Web-App which we will be publishing is mainly to eradicate the problem of invoice generation. There can be many other domains in which this idea can be applied depending on the problem scale and the process reliability. We have always encountered the problem of business to consumer whether it is generation of false invoices or problems with expired warranty. We wish to solve this by generating invoices online and storing it in database which will be helpful and easy to manage from both customer and retailer point of view.

UML

UML DIAGRAM:



## PROBLEM FORMULATION:

In the world fast pacing around internet there are surprisingly equal number of scammers online who are ready to scam you a handsome amount of money whenever they see a loophole in the system. As the problem of fake invoice and bills are increasing day by day the tax filing system and keeping count of the transactions are getting harder to manage even for a single entity of a business. So a foolproof plan is to integrate a verification system online after which there will only be valid and legit invoice generation without a single flaw. As database will also make it easy to manage the transactions from time to time.



## LITERATURE SURVEYS:

Over the past few years online business has advanced significantly but generating invoice of a product has always been a hassle when it comes to a business.

We have always encountered many problems when customer has to receive an invoice for the purchased good whether it be due to concerns such as generating it correctly, getting it warranted or false tax claims.

All the other invoice generators present in current market are either having very limited no of times for which they can be used, comes in trial version and for getting a full life time usage and downloadable invoices the user have to get a paid version which is costly.

Also there are chances that this data is getting leaked by some third party software and all the pop-ups and Google AdSense make it very difficult to generate simple invoices at times creating a very big loophole in user satisfaction and consumerism.

## Tools used for implementation:-

### 1) REACT –

Using this front end JavaScript library to build a user interface which we use to create a single page application (SPA) because of its components like structure along with hooks like useeffects, usestates, userefs , usecontext and a state management system Redux or ContextAPI.

### 2) MATERIAL UI –

A react UI framework used to design and develop a responsive website both for web and mobile with providing component we can import it into our projects and start using right away

### 3) AXIOS –

In Reactsjs, Axios is a library that serves to create HTTP requests that are present externally. It is evident from the fact that we may sometimes in React applications need to get data from the external source.

### 4) FIREBASE –

The Firebase Real-time Database is a cloud-hosted NoSQL database that lets you store and sync data between your users in realtime.

## Project Modules:

➔ Our project is mainly of Web Development so hereby we use these modules in it.

A. *App Module.*

B. *Feature Module.*

C. *dependencies Module.*

D. *firebase Module.*

App module - Provides a container for your app's source code, resource files, and app levels settings such as the module-level build file. When we create a new project, the default module name is "app".

They each provide essential files and some code templates that are appropriate for the corresponding app and the device type.

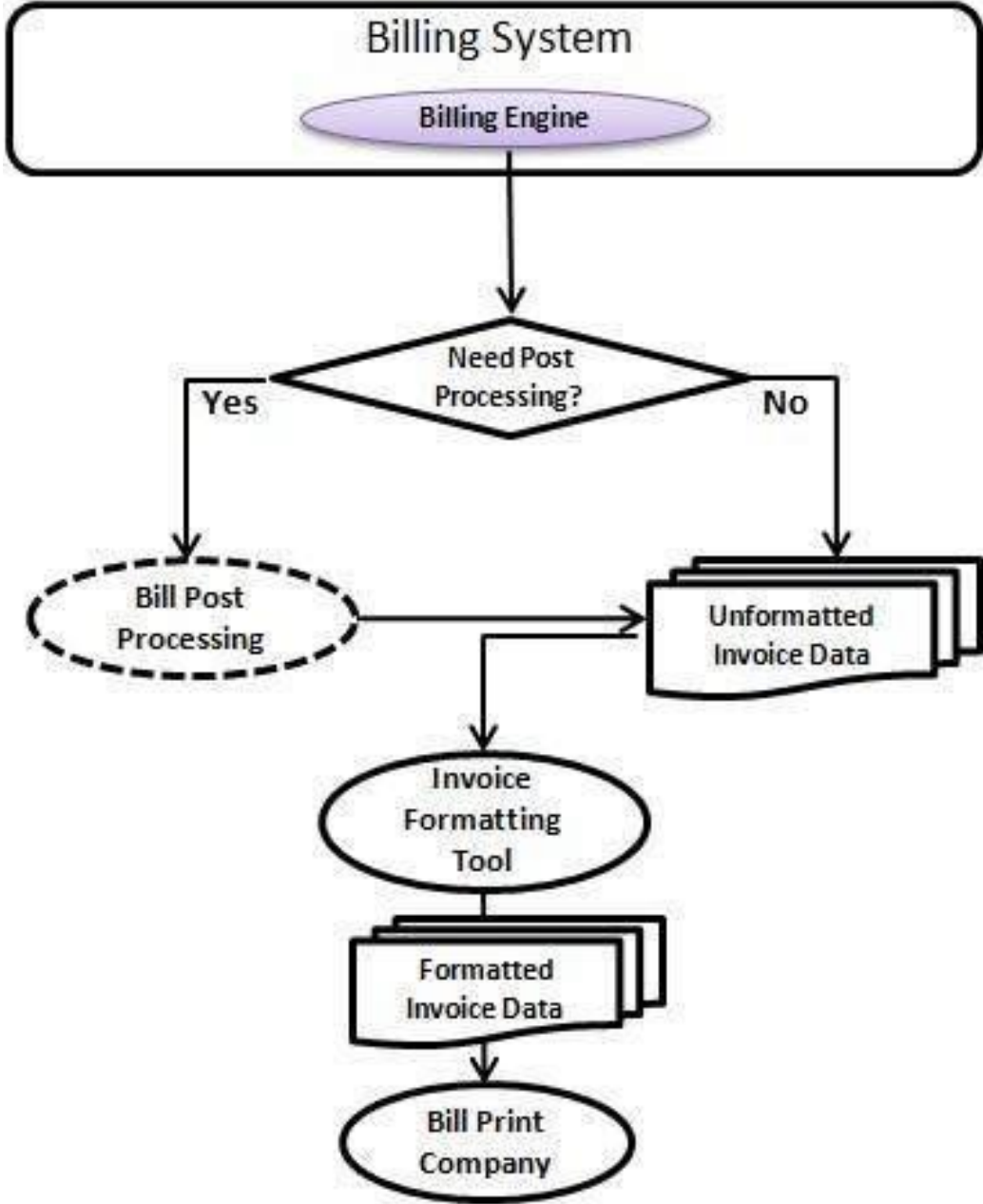
Feature module - Represents a modularized feature of your app that can take be deployed in terms of individual files and can easily be stored in separated components folder according to features it posses

For example, in creating the ui we can have different file and other for implementation features.

Dependencies module - This provides a container for our reusable code, which we can use as a dependency in other app modules or import into other projects. Structurally, a dependency module is the same as an app module, but when built, it creates a code archive file instead of an APK, so it can't be installed on a device.

Firestore module - Provides a container for your Cloud back-end code. This module has the required code and dependencies for a Java App Engine back end that uses simple HTTP, Cloud Endpoints, and Cloud Messaging to connect to your app. You can develop your back end to provide cloud services your app needs.

Flow chart:



## Conclusion:-

The application invoice generator is a collective solution for every problem faced by any human being in the present time related to invoice. It is time-saving as it gives exact invoice without any fraud and within the time. We are providing the space on cloud for their past transactions to keep their track of their purchase. The main point of our application is that it produces invoice after the verification of the purchase or invoice. The related application which is already in the market lacks many helpful and user-friendly features. Hence, invoice generator will be the first application to possess such features and will be very helpful in day-to-day life.