MEDASSISTANCE ERP

**PROJECT REPORT**

**Group No. 67**

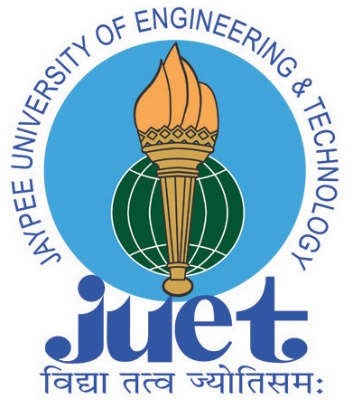
***Submitted by:***

## RICHESH GUPTA (181B165)

## ROHIT SINGH (181B172)

## SATYAM UPADHYAY (181B186)

**Under the guidance of Mr. Navaljeet Singh**

****

NOVEMBER 2019

***Submitted in partial fulfilment for the award of the degree of***

# BACHELORS OF ENGINEERING IN

**COMPUTER SCIENCE ENGINEERING**

**Department of Computer Science & Engineering JAYPEE UNIVERSITY OF ENGINEERING & TECHNOLOGY**

**AB ROAD, RAGHOGARH, DT. GUNA-473226 MP, INDIA**

**DECLARATION**

We hereby declare that the work reported in B. Tech. 5th semester project entitled “MedAssistance ERP”, in partial fulfilment for the award of the degree of B.Tech. submitted at Jaypee University of Engineering and Technology, Guna, as per the best of my knowledge and belief there is no infringement of intellectual property rights and copyright. In case of any violation, we will solely be responsible.

Richesh Gupta(181B165)

Rohit Singh(181B172)

Satyam Upadhyay(181B186)

November 21, 2020

Department of Computer Science and Engineering, Jaypee University of Engineering and Technology,

Raghogarh, Guna – 473226

**JAYPEE UNIVERSITY OF ENGINEERING & TECHNOLOGY**

**(Accredited with Grade-A by NAAC & Approved U/S 2(f) of the UGC Act, 1956)**

**A.B. ROAD, RAGHOGARH, DIST: GUNA (M.P.) INDIA Phone: 07544 267051, 267310-14, Fax: 07544 267011 Website:**

[**www.juet.ac.in**](http://www.juet.ac.in/)

# CERTIFICATE

This is to certify that the work titled “**MedAssistance ERP**” submitted by “Richesh Gupta, Rohit Singh, Satyam Upadhyay” in partial fulfilment for the award of the degree of **B.Tech** of Jaypee University of Engineering & Technology, Guna has been carried out under my supervision. As per the best of my knowledge and belief, there is no infringement of intellectual property rights and copyright. Also, this work has not been submitted partially or wholly to any other University or Institute for the award of this or any other degree or diploma. In case of any violation concern, students will solely be responsible.

Mr. Navaljeet Singh

Assistant Professor

November 21, 2020

# ACKNOWLEDGMENT

We, “Richesh Gupta (181B165)”,” Rohit Singh (181B172)”,”Satyam Upadhyay (181B186)”, would like to acknowledge the following faculties for their invaluable time and support in the development of this project:

Mr. Navaljeet Singh, mentor, without whose help and support throughout, this project would not have been possible.

Utkarsh Sharma, Project Coordinator, for providing us with all the information and material needed for the project.

Shishir Kumar, HOD(CSE), for his precious guidance and helping us with all the difficulties faced.

Richesh Gupta (181B165) Rohit Singh (181B172) Satyam Upadhyay (181B186)

**TABLE OF CONTENTS**

**Sr. No Contents Page No**

1. [Introduction 1](#_TOC_250010)
2. Objective and Goal 2
3. [Inspiration and Need 4](#_TOC_250008)
4. [Quora Analysis 5](#_TOC_250007)
5. [Our Proposal 6](#_TOC_250006)
6. [Software model used 7](#_TOC_250005)
7. [Tools and Frameworks 12](#_TOC_250004)
8. [Design Diagrams 24](#_TOC_250003)
9. [Implementation and Testing 31](#_TOC_250002)
10. [Conclusion](#_TOC_250001)
11. [References 37](#_TOC_250000)

**TABLE OF FIGURES**

**Fig. No Contents Page No**

* 1. Software Products 7
  2. Incremental Model 8
  3. Stage Delivery Model 9
  4. Parallel Development Model 10
  5. Incremental Delivery Stages 11
  6. E. R. Diagram 24
  7. Use Case Diagram 25
  8. Activity Diagram 1: Search a question 26

Activity Diagram 2: Answer a

9.

## question 27

## Activity Diagram 3: Ask a question 28

## Activity Diagram 4: View User Profile 29

## Data Flow Diagram 30

# INTRODUCTION

Enterprise Resource Planning (ERP) is a type of solution that helps businesses to manage and regulate their daily task and helps to streamline the processes which are complex to track and manage.

"MEDASSISTANCE ERP” is a website-based project. This project would provide Enterprise Resource Planning solutions to pharmacies that cannot afford costly ERPs for managing all their resources.

While going through various problem statements for our minor project we observed that medical industry had few dependencies which can be easily removed.

Which would then help benefit the consumers.

We chose to develop an open-source ERP solution such that it provides features of a modern-day ERP solutions also people have freedom to add/edit the features already present.

We decided to make this ERP free in monetary and distributive sense so that most retailers can benefit from it.

Our target audience is small cap. Retailers who feel an ERP solution is hard burden on them and feel current ERP solutions are very technical per se.

We tried developing solution which is easy to use and can run on legacy computers also.

After looking at various options available to develop the solution we chose “Django” as framework as it is robust, secure and highly integrable. Django is best for our case.

# OBJECTIVE

“To design an ERP solution which helps retailers to manage their resources.”

# GOAL STATEMENT

“We do not answer questions because we want to get points or because we have nothing else to do. We’re answering questions because we want to build our reputation or we genuinely, intrinsically enjoy helping people. It’s the same reason someone might want to make a website with information. We just wish to make that a lot easier.”

By above-mentioned objective and goal, we wish to convey the message that we the developers plan to make something which would truly help people to contribute to the society and live out the true meaning of being a social animal which is to help and learn to grow to make the world a better place. Where everything is so streamlined that people in anguish could just turn to us and find relief.

# ADVANTAGES OF ERP

* Integration among different functional areas to ensure proper communication, productivity and efficiency.
* Revenue period, from invoice to receipt of cash.
* Managing the interdependencies of dynamic processes Products billing.
* Tracking of the three-way match between purchase orders (what was ordered), Stock, and Cost (what the vendor invoiced).
* The Bookkeeping for all the responsibility: Revenue monitoring Expense and revenue at a crude level.
* Solves the possibility of multiple systems synchronizing differences.
* ERP Systems integrate the data in single site.
* Our ERP product is offline so that it can be used in remote locations.
* The product has Auto Backup so that no data is lost.
* Bill is sent directly to the customer's email, so there will never be a problem losing the bill.
* Reminders for the expiry of the batch of the commodity, the replenishment of the stock and the checks shall be given to the retaliator so that the retaliator may prepare accordingly.
* GST assistance module is offered to make it easier for the retailer to pay taxes.
* The cheque module in our product is used to store all cheques.
* Limited access can be provided to an employee in a store.

# INSPIRATION AND NEED

When we started studying healthcare system in our country, we analysed that there is no solution for small to small-mid cap. Retailers which was depressing and was causing major issue in some areas of India, Medicines are sometimes provided with subsidy but if operating cost is high then automatically it affects the nett cost of the medicine.

Therefore, we thought of creating a solution specially targeting small to small- mid cap retailers which would concentrate on reducing their operating cost and would help the retailers.

# 5. MAJOR ERP ANALYSIS

# Major ERP solutions have steep learning curve.

# Not getting update with time.

# Very expensive in operating cost and getting support.

# Some operations like managing accounts and cheques are still manual.

# Major ERP solutions still don’t have support for GSTR.

# There was no module to analyse data.

# Some of ERP solutions are online which require internet connection at all times.

# With retailers, raw bills are in trend. Which results in Tax evasion.

# No support for managing staff.

# ERPs Cannot be modified as per the customer.

# Expensive plan if you want to scale up.

# Some ERP solutions requires powerful hardware.

# No community to help customers free of cost.

# Due to solutions being proprietary, no distribution is allowed.

# OUR PROPOSAL

* Our proposal is to create an inexpensive ERP solution which also saves money of medicine retailers.
* The basic structure for the start would be similar to regular ERP solutions
* The project will have multiple modules which can be edited as per the requirements of individual retailers.
* This project will be free in both monetary and distributive sense.
* Scaling of project will be easy.
* The project will be offline.
* We also will add Mechanism to add, edit and delete users in the project and would also limit their access according to their credentials.
* Code will be very modular which would make customization very easy.
* Automation will be provided to help in tedious and technical tasks can be done easily. For example - GSTR generation and taking backup.
* Instant E-bills which still is not included in many ERP solutions.
* Providing insights about sale and profits.
* Fast processing of data.
* Security and Ease of use is our priority.

# SOFTWARE MODEL USED

# After analysing the needs of our project and the deadline to complete the project we decided to go with the Agile development model which gives us the flexibility to develop and test our project without being highly dependent on the modules which are part of other developers’ code cycle.

# We figured that this will not only give us flexibility to write codes, test and manage but also will help us in integration of the project too.

# Agile is efficient and has approach called continuous development and testing throughout the project cycle which supports even late execution of ideas and its integration.

# As we were also loose on our requirement side of the project because of inexperience we thought that this method would yield maximum result rather than other methodologies within given time frame.

# 

# [11] Agile Model Diagram

# Agile development is used wherever quick development is required, in our case it was.

# In Agile there are several stages, namely –

# Scope of the project

# Requirement Analysis

# Iteration

# Releasing the iteration

# Support

# Repeat (If necessary)

# 1 Scope of the project

# In scope of project stage, we try to analyse the project’s tentative timeline and it’s cost

# Then we try to we analyse the economic and technical feasibility.

# Requirement Analysis

# During requirement analysis we ask or judge what the end-user needs and how to make it reality.

# We perform various analysis in sense that what resources does this project needs, what tools we are going to use, which platform to use, what features should be added, how to add those features, how are we planning to make the project efficient and cost friendly.

# Risk assessment is one of the analysis too, whether the project respects the ROI or not. If the market is ready for the product or not are some of the criterions that we brainstorm on.

# 7.3 Iteration

# In this stage we actually start implementation of the drafted idea.

# In every iteration we concentrate on one feature and complete it entirely,

# We perform its unit testing, integration testing and then try to remove bug if any,

# 

# [12] Iteration diagram

# In every iteration we increment features and deploy changes of previous iteration if any, and we iterate until project is complete or customer is satisfied.

# REFERENCES

1. https://docs.python.org/3.7/
2. https[://ww](http://www.quora.com/)w.q[uora.com](http://www.quora.com/)
3. https://en.wikipedia.org/wiki/Web\_development
4. https[://ww](http://www.w3schools.com/)w.[w3s](http://www.w3schools.com/)c[hools.com/](http://www.w3schools.com/)
5. https[://ww](http://www.udemy.com/course/python-and-django-full-stack-web-)w.u[demy.com/course/python-and-django-full-stack-web-](http://www.udemy.com/course/python-and-django-full-stack-web-)

developer-bootcamp/learn/lecture/6598198?start=0#overview

1. https[://ww](http://www.youtube.com/channel/UCZc238wXqeN2M2uXQaY9MEw)w.y[outube.com/channel/UCZc238wXqeN2M2uXQaY9MEw](http://www.youtube.com/channel/UCZc238wXqeN2M2uXQaY9MEw)
2. https://docs.djangoproject.com/en/2.2/
3. https://getbootstrap.com
4. https://developer.mozilla.org/en-US/
5. <https://stackoverflow.com>
6. http://tryqa.com/what-is-agile-model-advantages-disadvantages-and-when-to-use-it/

12. https://www.pivotaltracker.com/marketing\_assets/agile/agile-methodolody-graphic-final-cleaned-1e97d27f0e65203200ba21ea8def564af163890d742a9fa455de9674ca0187f7.png