

ASSIGNMENT -01

Group -16

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Software Requirement Specification and Contextual Inquiry

I. INTRODUCTION

Problem statement

Invoicing Software

Many software companies outsource software development services. anyone can utilize this opportunity and can contact them. These companies can create software as per your requirements and in the said timeline with reasonable prices.

There are infinite agencies that require invoicing software for performing their important tasks to ease their invoicing as well as the payment process.

Most accounting solutions require an accountant or accounting knowledge to measure and analyze financial metrics. With invoicing software things become easier to manage.

This software includes

- Creating, editing & sending invoices directly from the software.
- Automated recurring invoices saves lots of time in preparing an invoice.
- Tracking the status of invoices and payments of the order.
- Analyzing finance metrics like income flow, profits and losses.

Purpose

The purpose of this document is to build an Invoicing Software for performing invoicing as well as managing financial metrics. SRS will explain the purpose and features of the application. It will also serve as a reference to the developers building the first version of the software.

Scope

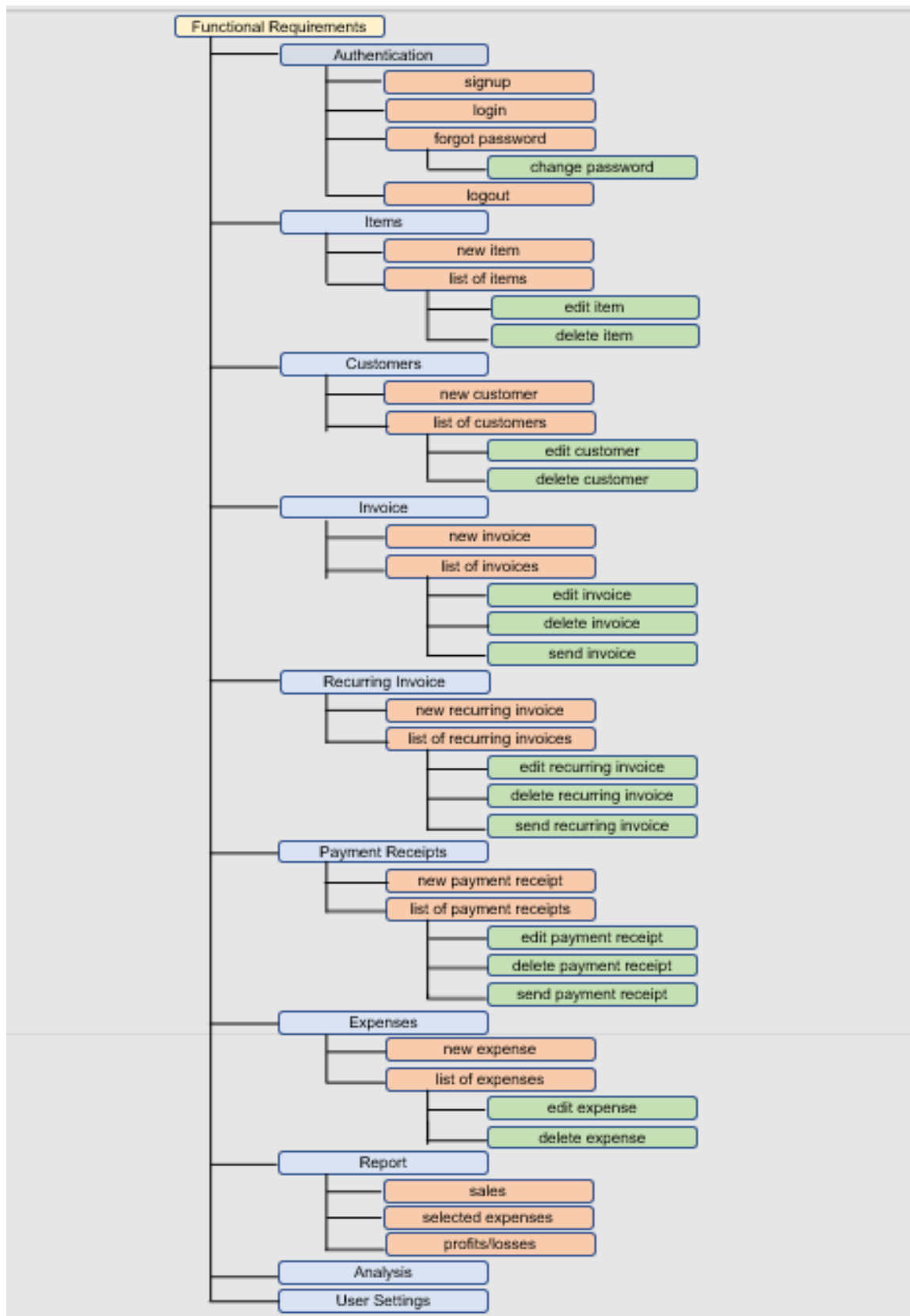
Invoicing software is a tool to create invoices for a purchase and to manage financial metrics. This application Automatically recurs invoices, Tracks the status of invoices and payments of the order, analyzes finance metrics like income flow, profits and losses, and also manages customer information.

Targeted Audience

Anyone who wants to keep track of invoices on orders with their customers. For the cause of restricting domain as of now we chose a particular pool of companies. The targeted audience is the software companies who outsource software development services.

II. FUNCTIONAL REQUIREMENTS

Hierarchy



R1 Authentication

R1.1 signup

R1.2 login

R1.3 forgot password

R1.3.1 change password

R1.4 logout

R2 Items

R2.1 new item

R2.2 list of items

R2.2.1 edit item

R2.2.2 delete item

R3 Customers

R3.1 new customer

R3.2 list customers

R3.2.1 edit customer

R3.2.2 delete customer

R4 Invoice

R4.1 new invoice

R4.2 list of invoices

R4.2.1 edit invoice

R4.2.2 delete invoice

R4.2.3 send invoice

R5 Recurring Invoice

R5.1 new recurring invoice

R5.2 list of recurring invoices

R5.2.1 edit recurring invoice

R5.2.2 delete recurring invoice

R5.2.3 send recurring invoice

R6 Payment Receipts

R6.1 new payment receipt

R6.2 list of payment receipts

R6.2.1 edit payment receipt

R6.2.2 delete payment receipt

R6.2.3 send payment receipt

R7 Expenses

R7.1 new expense

R7.2 list of expenses

R7.2.1 edit expense

R7.2.2 delete expense

R8 Report

R8.1 sales

R8.2 selected expenses

R8.3 profits/losses

R9 Analysis

R10 User Settings

SRS

R1 Authentication

R1.1 signup

- Input - name, email
- Output - success message
- Description - After giving all the inputs, new user will be created

R1.2 login

- Input - name, email
- Output - success message
- Description - After giving all the inputs user will be logged into his/her account

R1.3 forgot password

R1.3.1 change password

- Input - email
- Output - success message
- Description - new computer generated password will be sent to user email. He/she has to login with the new generated password from the login page.

R1.4 logout

- Output - success message
- Description - user will be logged out from his account

R2 Items

R2.1 new item

- Input - name, price
- Output - items list
- Description - After giving all the inputs, new item will be created

R2.2 list of items

- Description - lists all the created invoices

R2.2.1 edit item

- Input - name, price
- Output - items list
- Description - Previous item will be modified with new inputs

R2.2.2 delete item

- Input - item
- Output - items list
- Description - Selected item will be deleted

R3 Customers

R3.1 new customer

- Input - name, phone number, address
- Output - customers list
- Description - After giving all the inputs new customer will be added to list

R3.2 list of customers

- Description - lists all the customers

R3.2.1 edit customer

- Input - name, phone number address
- Output - customers list
- Description - Previous customer information will be modified with new inputs

R3.2.2 delete customer

- Input - customer
- Output - customers list
- Description - Selected customer information will be deleted

R4 Invoice

R4.1 new invoice

- Input - customer, item, date, invoice number, company details
- Output - invoices list
- Description - After giving all the inputs, the bill is calculated and the invoice will be generated

R4.2 list of invoices

- Description - lists all the created invoices

R4.2.1 edit invoice

- Input - customer, item, date, invoice number, company details
- Output - invoices list
- Description - Previous invoice is modified with changed inputs

R4.2.2 delete invoice

- Input - invoice
- Output - invoices list
- Description - Selected invoice will be deleted

R4.2.3 send invoice

- Input - customer email, company email
- Output - success message
- Description - Sends the invoice through mail

R5 Recurring invoice

R5.1 new recurring invoice

- Input - customer, item, date, frequency, invoice number, company details
- Output - recurring invoices list
- Description - After giving all the inputs, the bill is calculated and the recurring invoice will be generated

R5.2 list of recurring invoices

- Description - lists all the recurring invoices.

R5.2.1 edit recurring invoice

- Input - customer, item, date, frequency, invoice number, company details
- Output - recurring invoices list
- Description - Previous recurring invoice is modified with changed inputs

R5.2.2 delete recurring invoice

- Input - recurring invoice
- Output - recurring invoices list
- Description - Selected recurring invoice will be deleted

R5.2.3 send recurring invoice

- Input - customer email, company email
- Output - success message
- Description - Sends the recurring invoice through mail frequently with the chosen period

R6 Payment Receipts

R6.1 new payment receipt

- Input - customer name , customers invoice, date, payment number, company details
- Output - payment receipts list
- Description - After giving all the inputs the payment receipt will be created for the selected invoice of a customer.

R6.2 list of payment receipts

- Description - lists all the created payment receipts

R6.2.1 edit payment receipt

- Input - customer name , customers invoice, date, payment number, company details
- Output - payment receipts list
- Description - After giving all the inputs the previous payment receipt will be modified.

R6.2.2 delete payment receipts

- Input - payment receipt
- Output - list of payment receipts
- Description - Selected payment receipt will be deleted

R6.2.3 send payment receipt

- Input - customer email, company email
- Output - success message
- Description - Sends the payment receipt through mail

R7 Expenses

R7.1 new expense

- Input - date, amount, receipt documents
- Output - expenses list
- Description - After giving all the inputs, the company's new expense information is stored

R7.2 list of expenses

- Description - lists all the expenses made by the company.

R7.2.1 edit expense

- Input - date, amount, receipt documents
- Output - expenses list
- Description - Previous expense information is modified with changed inputs

R7.2.2 delete expense

- Input - expense
- Output - expenses list
- Description - Selected expense information will be deleted

R8 Report

R8.1 sales

- Input - Range of date , sales category (by item/by customer)
- Output - pdf
- Description - sales Report pdf will be generated for an item or for a customer

R8.2 selected expenses

- Input - Range of date
- Output - pdf
- Description - Expenses Report pdf will be generated for company

R8.3 profits/losses

- Input - Range of date
- Output - pdf
- Description - profits/losses report pdf will be generated for company

R9 Analysis

- Output - graph of sales, expenses, net income
- Description - graphical view of income/expenses will be generated

R10 User settings

- Input - name, phone number, address, email, password
- Output - success message
- Description - user can update name, number, address, email, password

III. NON-FUNCTIONAL REQUIREMENTS

Contextual Inquiry

We performed the contextual inquiry by discussing with my teammates and some of our classmates. We discussed how each of us manage bills and finances in our households. We also discussed how customer relationships are managed by our parents who are dealing with customers in their working field. We then asked a few questions about the difficulties they faced and took suggestions that can be implemented in invoicing software applications. We then created the affinity diagram, shown below, which depicts the issues/requirements that the user faced/needed.

