

**POWER JAM**

SOFTWARE REQUIREMENT SPECIFICATION

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1. **REQUIREMENT ANALYSIS**

**1.1 EXISTING SYSTEM**

UrbanClap is recognized as the fastest-growing start-up in India. They are a mobile marketplace for local services. They help customers hire trusted professionals for all their service needs. They are staffed with young, passionate people working tirelessly to make a difference in the lives of people by catering to their service needs at their doorsteps. They provide housekeeping services which consist of Plumbers, Electricians, Carpenters, Cleaning and Pest Control. They also provide personal services like beauty, spa, mobile and other appliance repairs etc. Be it getting a plumbing job done, improving your fitness through yoga, learning to play the guitar, decorating your home or getting candid photos of your wedding clicked, we are a sure shot destination for your service needs.

**1.2 LIMITATIONS OF EXISTING SYSTEM**

* The UI is not properly designed with quality images.
* There is no cash on delivery.
* There is no deposit money from electricians’ side.
* There is no pre-booking.

**1.3 PROPOSED SYSTEM**

**Power Jam** will serve as a web site which provides best electrical services in developing city Hosur. There will be many features where customers and electricians are benefited being part of this website. There is registration page for new users/customers and for new electricians to get job. All types of payment mode are provided for customers to get easy access with this website. More information regarding electrician’s work is provided to customers, so that customers can choose the person whom they want from the list electricians provided by admin. Customers are provided with pre-booking system. Electricians can update their status of work so that works will be assigned accordingly. Customers can edit date and time. In order to avoid misuse of this website customers and electrician should pay deposit money while registering into the website.

**1.4 BENEFITS OF THE PROPOSED SYSTEM**

The aim is to duplicate the existing system only with electrician services in Hosur with a better user interface design, where customers are provided with best services on electrical issues and also helps the admin to manage the requests of the customers and electricians in the website.

Power Jam provides customers pre-booking facility, more information about electrician so that they can choose electrician from the list provided by admin, customers can edit date and time, all mode of payments are provided, raw materials can be purchased by electricians if customer is willing, can pay visiting amount if not satisfied with the overall cost which is estimated before work by electrician.

Power Jam provides electricians with a greater number of works per day according to customers request and wish. They can edit their schedule according to their work status on that particular day (Example: if they are assigned with 3 works per day and he/she caught by the 1st work the whole day, they can edit their current status so that admin will assign some other electrician for other works ). They are payed daily according to the number of works they do per day.

**1.5 CONCEPTS USED IN THE PROPOSED SYSTEM**

We are using HTML to create a web page with JavaScript for validation purpose of HTML page. Adding on we need php and MySQL to create a dynamic web pages that can interact with database management used for web application which can be embedded within HTML. Moreover, we also need CSS for describing the presentation of webpages, including colours, layout and fonts. So, on the whole we need CSS to design a webpage, JavaScript to validate a form HTML for website development and MySQL and PHP for database management.

1. **REQUIREMENT SPECIFICATIONS**

**2.1 FUNCTIONAL REQUIREMENTS**

* Search function for the website
* Easy to update site content, add electrician, remove electrician, edit schedule, write blogs.
* Website Forms
* Registration Forms
* Online Enquiry Form
* Login Forms
* Updating status from electrician side.
* Easy to edit date/time.

**2.2 HARDWARE REQUIREMENTS**

* Min. 2GB RAM
* Min. 500 MB Hard Disk
* Min. I3 Processor

**2.3 SOFTWARE REQUIREMENTS**

* Client on Internet: Web Browser, Operating System
* Web Server: Apache [3]
* Database: MySQL [4]
* Website Designing Language: HTML
* Styling language: CSS
* Scripting Language: PHP, JavaScript

1. **SYSTEM MODEL**

**3.1 ABSTRACT DESCRIPTION OF THE PROJECT**

This document contains an abstract description of Power Jam in which the website is a mediator between the customer/user and electrician. By providing electrical services, this website is easily accessed by admin by assigning works to electricians according to the customer’s request. Website will have registration page for customers to register complains regarding electrical works. And for electricians to get works assigned by admin. This way this website is beneficial for all three modules.

* 1. **MODULES**

It is a 3-tier architecture with admin, user and electrician module.

* + 1. **ADMIN**

Admin can register and login into the website. This module acts as an intermediator between customer and electrician where admin can view request details from customer side and assign electricians accordingly. Details of both customers and electrician are viewed. Sends a message to customer about the electrician and to electrician the details of customer’s address. Payments from customer side is monitored by this module and electricians are given salary according to their daily works. Reports are there to view the total customers per day, which electrician attended whom, area wise report and day wise report regarding payments. Can delete a customer or electrician who is not anymore, a part of this website. Authorization from admin side so that customers and electricians cannot misuse this website. This is achieved by verifying the customer and electrician by sending OTP to both phone and email Id during signup. This module manages the database management system of the website.

**3.2.2 USER**

User should register in the website to access the service provided by Power Jam, In Home page there is an option given to register both for the user as well as the electrician. In the registration form user fill their personal information like Name, age, sex, mail Id, phone number etc to authorize their use. Once the registration is done the information of the user is stored in the database, users can also change their information using the edit option. User can now request for any services provided by the site; user first enters the required services in details there is also an option for pre-booking by giving date and time when the user wants the services to be provided. After submitting all the details, the admin provides the user with a set of electricians who are available and are in the same location of the user. The information of the electrician is given like the review, rating, and experiences of each electrician. Based on all these information users can choose the best electrician. After that the admin connects the user and the electrician. When the electrician completes the work, user receives the payment link. User can now view the final cost of the service and can also make the payment online. Once the payment is done the user is given an option to rate and comment on the services provided by the electrician which will be added to his profile.

**3.2.3 ELECTRICIAN**

The “Power Jam” website allows the electricians to register themselves into this firm. During the time of registration, the electrician will have to provide their basic information like, name, address, contact number, education, bank details etc. Then, the website provides the electrician with a set of terms and conditions regarding the job, below which there will be an “agree” button which the electrician has to click if he agrees to all the terms and conditions. In this set of terms and conditions we have included a deposit amount payment option. Through this option we are trying to minimise the number of unreliable registrations. This amount will be returned to the electrician at the time he decides to quit the job or while the firm dismisses the electrician from the firm. The website also asks the electrician to provide a login ID and password using which the electrician can login to the website in the future days. The admin of the firm assigns a set of jobs to the electricians. Each electrician can login to their account using the login ID and password created at the time of registration. When the electricians have logged in, he/she can view all the jobs assigned. The electricians can click on each assigned job and view the details of the customer and also the service requested by each customer. In the details of the customer the electrician can obtain the name, address and contact number of the customer. The contact details of the customer are used by the electricians to update the customer about the arrival time. It is important to track the work progress of every electrician in order to make sure that there is no clash in timing between the service requests. So, the electricians will have to update the admin about the completion of their work through their login page. Once the work is completed, the electrician will have to report the admin, about the estimated amount for the work done, which will be verified by the admin and the customer will be updated about the amount of service provided. The electricians can view their daily assessment by the firm through their login page. This assessment page includes the ratings and customer comments about their service. It also includes the number of works completed by them on each day and the amount earned by them on each day. Through this option the electrician can improve his services and provide better customer services in the future works that are undertaken. The electricians are provided with an option of editing their schedule in case they are hung upon a customer more than the estimated time and cannot reach the next service point at the assigned time. The electricians are provided an option to inform the admin about the delay a caused and the admin can assign some other electrician instead of him/her so that there is no delay in the services to be provided to the customers.

SYSTEM DIAGRAM:

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| --- |
| **POWER JAM** |

|  |  |  |
| --- | --- | --- |
| USER |  | ELECTRICIAN |

|  |
| --- |
| ADMIN |

|  |
| --- |
| * Registration * Request with editing option * Date/Time * View electrician * Rating the service * Payments   => View  => Make |

|  |
| --- |
| * Registration * View customer and electrician details * View request of customers and electrician availability * Assign customers to electrician * SMS about details work to customers and electricians * Reports of customers and electrician * Remove electrician and customers * Authorization |

|  |
| --- |
| * Registration * View assigned jobs * View request * Updating status of work once completed with amount of service. * Assessment of works on daily basis * Edit schedule |