

SOFTWARE REQUIREMENTS SPECIFICATIONS

FOR PECONNECT

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Punjab Engineering College, Chandigarh**Table of Content**

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Revision History

Name	Date	Reason For Change	Version
Campus Diaries	01/10/2022	Initial Version	1.0

1. Introduction

1.1 Purpose

The purpose of this document is to outline the system requirements for PeConnect which will aim to connect the students of campus using a common platform. It is totally campus specific. There are many similar apps but no one can handle that many students together at one platform. We will add additional features like branch specific timetable, specific groups for club activities, anonymous confessions, personalized feed, like buttons, emojis reaction etc. This site is just a communication channel between all the students.

1.2 Intended Audience and Reading Suggestions

There are many introvert students in college who don't have a big friend circle. Most of the time they are unaware of anything happening in the college. This site is going to provide them a platform to share their creativity, memes, thoughts and ideas. Student can share honest stories anonymously without having fear of being getting judged. We are thinking of creating a group named wall of creativity: "Quki Hr Deewar Kuch Kehti hai" where people can share their funny college stories and others can like it, comment it and share it on other social media sites. Our intended audience is all students of college including seniors and juniors.

1.3 Definition and Acronym

Term	Full Description
Admin	Person responsible for the upkeep, configuration, and reliable operation of the system
Users	Anyone using the system
DFD	Data Flow Diagram
API	Application Programming Interface
Machine Learning	For building recommendation system and personalized feed.
React	JavaScript framework for frontend UI development.
Firebase	For creating database and accessing effectively.
Node.js	JavaScript based backend for fast and better integration.

1.4 Overview

The remaining part of document comprises of **3** sections as follows:

- **Section- 2:** It describes the product perspective, its functional requirements and stakeholders involved in the system, along with the non-functional requirements like scalability, performance etc.
- **Section- 3:** It describes all the interfaces comprising the user interface specifications, hardware interfaces and software interfaces.

2. Overall Description

2.1 Product Perspective

The perspective of this system is to allow users the ability to communicate their thoughts with their peers on campus level. They have ability to talk anonymously or using their id. We hope to enable all aspects of users to be digitally manageable in a safe, secure and transparent manner and this particular system is a step in that direction and without any bias.

2.2 Product Functions

The functions of our software are as follows: -

- Configure a username and password for the server and allow devices to gain access to the server.
- The connected users can then communicate with server from any device.
- The users can perform these actions:
 - i. Upload a post.
 - ii. Delete a post.
 - iii. Like or Comment on someone's post
 - iv. Update profile
 - v. Send and read messages in group chats
- Create a database that maintains a record of actions of uses with complete trust and transparency

2.3 User Requirements

- 1) **Must be a student of Punjab Engineering College.**
 - 2) **Have a good internet access.**
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2.4 Process Constraints

People using foul language should be banned. Checking if the respective person is student of pec or not. Time required to upload or delete a feature or update the information.

3. Specific Requirements

3.1 Functional Requirements

Functional Feature	Remarks
Authentication	Authenticate users using their student id.
Create profile	Joining the team by validating their identity.
Update Post	Upload or delete post anonymously or through id.
Chat with peers	Can chat in groups or individually and read messages and reply them.
Like, Comment and share	They can share a post and like or comment on them

3.2 Non-Functional Requirements

3.2.1 Performance Requirements

PeConnect can handle up to limit as given by firebase database.

The response time of uploading and deleting post is about 0.5-0.7 second.

3.2.2 Security Requirements

Since the profile is to be created by an owner, the owner should carefully check about the info he is uploading on site and be aware if he is using the profile and no other person have access to it. In case of hacking or ineligible use by some other person, he/she should immediately report the account.

3.3 Constraints

User Requirement

- Use of appropriate language may lead to account ban.
- Freedom to share.

Software Requirement

- **React.js** (A JavaScript based Library)
- **Firebase** (Database system)
- **Node.js** (JavaScript based runtime environment).