

# Architecture Design

## Password Generator

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## Document Control :

Date	Version	Description	Author
12/12/2023	1.0	Abstract, Introductions, Scope	Mrunal Somankar
15/12/2023	1.2	Method, architecture	Mrunal Somankar
19/12/2023	1.3	Tool , Deployment	Mrunal Somankar
22/12/2023	1.4	Report	Mrunal Somankar

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## 1. Introduction

### 1.1 What is Architecture Design Document?

Any software needs the architectural design to represent the design of the software. IEEE defines architectural design as “the process of defining a collection of hardware and software components and their interfaces to establish the framework for the development of a computer system.” The software that is built for computer-based systems can exhibit one of these many architectures.

Each style will describe a system category that consists of:

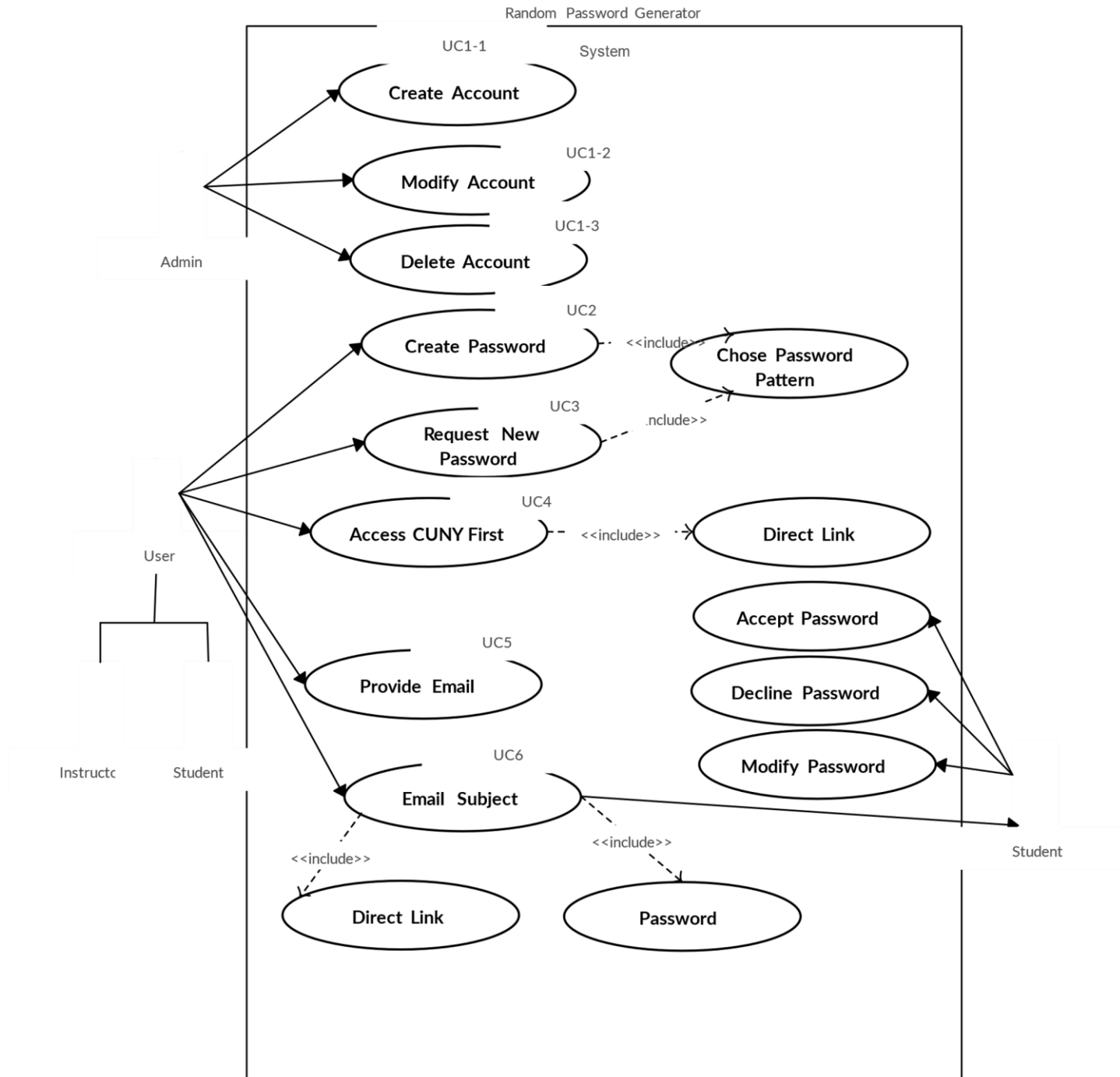
- A set of components (eg: a database, computational modules) that will perform a function required by the system.
- The set of connectors will help in coordination, communication, and cooperation between the components.
- Conditions that how components can be integrated to form the system.
- Semantic models help the designer to understand the overall properties of the system.

## 1.2 What is Scope?

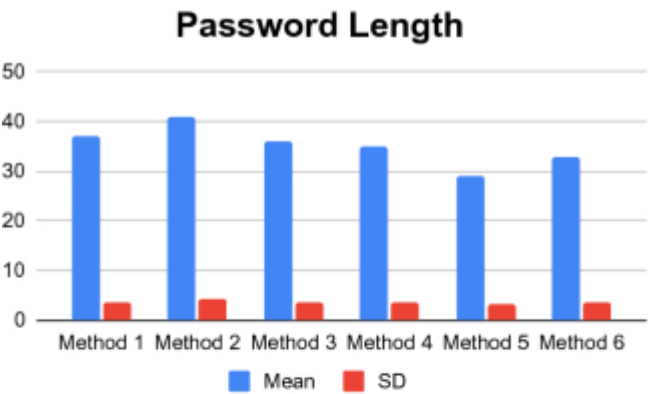
Architecture Design Document (ADD) is an architectural design process that follows a step-by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the design principles may be defined during requirement analysis and then refined during architectural design work.

## 2. Architecture

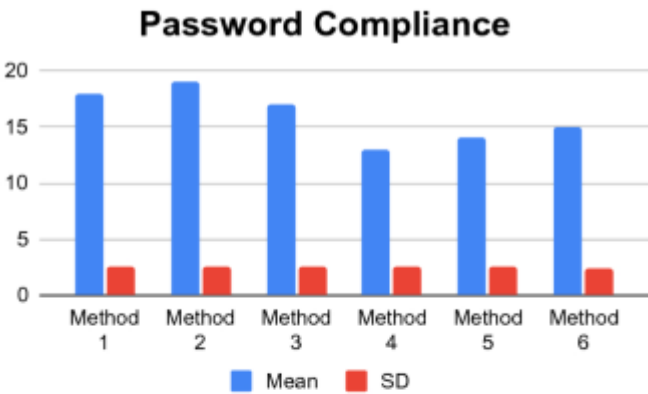
# Architecture Design



Data visualizations



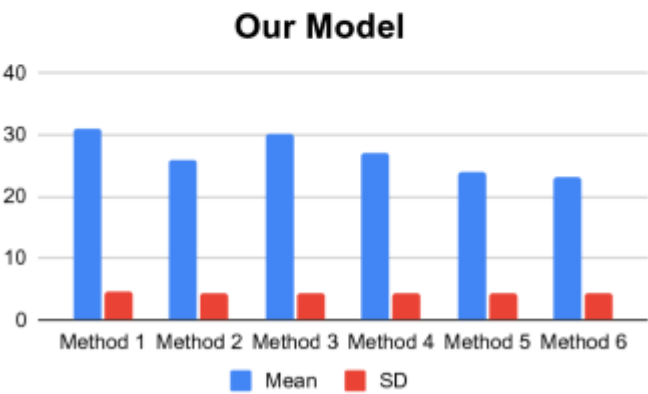
(a) Password Length Score



(b) Password Compliance Score



(c) Existing Strength Estimator Score



(d) Proposed Strength Estimator Score

### 3. Deployment

Create a New Playground: Sign up and create a dedicated workspace.

Import or Create Your App: Start with existing code or build a new app from scratch.

Develop and Test: Write, edit, and test your React components within the playground.

Deploy with a Click: When ready, deploy your app to a shareable URL with a single click.



### **Publish Datasets and Reports**

Password Generator: Insights and Impact

Beyond Accuracy: While a perfect training and test accuracy might seem ideal for a password generator, its true value lies not just in raw numbers but in enhancing user security and fostering responsible password practices.

Focus on User Empowerment: Our generator prioritizes user experience and education. Clear instructions, customizable parameters, and intuitive interfaces equip users to make informed choices and understand the importance of strong passwords.

Security Beyond Prediction: Instead of predicting specific "poisonous" or "edible" passwords, the generator focuses on building robust, unpredictable barriers against cyberattacks. By utilizing secure algorithms and diverse character sets, it creates passwords that are virtually impossible to crack.

Long-Term Impact: Our vision extends beyond individual password generation. We aim to:

- Promote awareness about cyber hygiene: Empowering users to adopt secure password practices across all online platforms.

- Contribute to a safer digital ecosystem: Reducing the prevalence of weak passwords and mitigating the risk of cyberattacks.

- Drive innovation: Continuing research and development to refine algorithms and explore new features like password management and secure storage.

**\*\*In conclusion, the "accuracy" of a password generator isn't measured solely by numbers, but by its ability to: \*\***

- Empower users to make informed security choices.

- Create strong, unpredictable passwords that stand against cyber threats.

- Drive positive change in the landscape of online security.

Our project envisions a future where strong passwords are not just generated, but actively chosen and embraced by users, leading to a more secure and responsible digital world.

This revised text aims to go beyond a simple analysis of accuracy and instead highlight the broader impact of the password generator on user behavior, security practices, and the digital ecosystem. By focusing on user empowerment and long-term vision, it paints a more comprehensive and impactful picture of the project's significance