**What if the system wasn’t implemented?**

**Ans**: There is lack of local programming judge websites. “*Code Samlao”* is an interactive programming judge website that will encourage students, developers, coders and programming enthusiasts to practice and develop their skills. They will go through different types of problem solving and participation in time-based programming contests.

So, If the "*Code Samlao*" programming judge website is not implemented, then user will miss a local-convenient programming judge website. This could lead to a lack of opportunity for individuals who are looking to enhance their abilities and skills and it may hinder their opportunity to compete in the competitive job market. Because, many companies and IT farms calls programmers to their interview by noticing the individual’s performance in different competitive programming judge websites.

**What are current process problems?**

**Ans**: The current process following in “*Code Samlao*” can lead to some limitations and lack of abilities like-

1. Insufficient budget, human resource and time schedule to add additional features like:

* User feedback and support for users,
* Programming related QnA forum,
* Articles about different programming concepts (Data Structures, Algorithms, Discreate Mathematics, Object-oriented programming etc.) ,
* Programming related video-lectures like in YouTube,
* Programming language tutorials (C, C++, Java, Python, PHP, Ruby, Swift, Perl etc.)
* Dedicated android/iOS app of “*Code Samlao*” (It would help to reach more users)

1. Database maintenance issue.
2. Insufficient exercise problems for practice purpose.

**How will the proposed system help?**

**Ans**: The proposed system of *“Code Samlao”* will pleased our users with different facilities like- participating in different time-bound competitive programming contests and develop their programming knowledge by solving challenges, also test their skills. Top tier positions can receive rewards (If contest authority permits) Here, participants can practice and took part in different types of programming contests, they would introduce to verity programmers around the world. It may also help them to become shortlisted for top tier software giants for interview calls, according to their performance in the contests and solving records.

**Is new technology needed? What skills?**

**Ans**: No. so far, no new technology (such as- Artificial intelligence, Machine learning, Block chain, Edge Computing, IoT etc.) concept is not required for the “*Code Samlao*” programming judge website.

The developer team has used HTML, CSS, Bootstrap and JavaScript for the front-end; Python & Django for the back-end; MySQL for the database. Also, IDE’s like PyCharm and Visual Studio Code for editing. Also, it requires server related tool like “XAMPP” with at least Apache, MySQL & phpMyAdmin enabled. It requires testing purpose tools like “Selenium”.

But for users, it may require knowledge of different classical programming languages (C, C++ etc.), database knowledge (e.g. MySQL) and problem-solving skills.

**What facilities must be supported by the system?**

**Ans**: The facilities that must be supported by the “*Code Samlao*” system may include-

1. User-friendly interface.
2. Proper authentication system for users.
3. Programming contests attired with different level/topics of challenges with reward points.
4. Problem solving output verdict must be accurate. (Accepted/Failed/Environmental Error)
5. Facility for users to track their progress.
6. Strict time management for the contests.

**What is the risk associated with cost and schedule?**

**Ans**: The risks associated with cost and schedule in “*Code Samlao*” programming judge website is-

1. Late in development process resulted in delay in delivery of the whole system.
2. Unexpected expenses like requirement of buying new gadgets/devices/software for the system and the development process doesn’t go in smooth.
3. Server cost & server management complexity effects on schedule.
4. Different bugs arise in development process.
5. Functional issues in testing and debugging.

**Are there legal issues?**

"*Code Samlao*" programming judge website takes user privacy concern very seriously. It does not promote or condone any illegal or harmful activities; it does not promote hatred against any cast/group/occupation/gender/religion/nation/political party or any living or dead person. Problem/challenge scenario portrayed in the website has no intention to spread hatred.

"*Code Samlao*" only collect the minimum amount of information necessary to provide the user experience butter-smooth and doesn’t track or sell user’s personal information.

For the user’s side, violation of terms and conditions of “Code Samlao” may resulted in termination of user account. Also, in extreme cases (like cyber bullying, threads or harassment created by the individuals) can lead to legal actions.