**Introduction**

Coding is the ability to design, write, test, implement and maintain a computer program’s source code. This code is written in a programming language, with its own syntax and meanings. In order to be able to code, you need to understand this language, and understand the way it works.

Today, Code powers our digital world. Every website, smartphone app, computer program, calculator and even microwave relies on code in order to operate. This makes coders the architects and builders of the digital age.

Coding isn’t that easy, right? Many programmers (beginners-experts) face lots of problems and themselves many question like is my code clean enough? Is it easy to understand and change for other developers, or even for myself In the future? How does this function interact with other functions? Can it affect any of them in a bad way? Can it easily be used by other functions?and more problems while coding like When you make a change to a program, or you add a new feature, you run the risk of introducing new bugs into the program and when you write code which is duplicated in the program it can be hard to maintain and can introduce bugs and more problems they face thus programmers have many questions about where is the problem and the best way to solve this problem so CodeGuide solve all this ,So what is the CodeGuide?

CodeGuide is a website being developed especially to help programmers facing problems in programming languages field so to save their time and effort in searching for hours in online documentation and trying to fix problem by themselves, Codeguide society has millions of Questions &

Answers about almost all computer languages and Programmers can easily reach the answer to their question and they can also improve their coding skills as CodeGuide provides virtual problems assumed by moderators of website or tasks made by instructors in addition to links for the best online courses related to a certain language they want to improve themselves in it.

**Survey**

Q&A software is online software that attempts to answer questions asked by users (Q&A stands for "question and answer"). Q&A software is frequently integrated by large and specialist corporations and tends to be implemented as a community that allows users in similar fields to discuss questions and provide answers to common and specialist questions.

Q&A software is often provided to corporate and specialist sites, so the site and its users can be asked questions as well as provide or receive expert answers to them. This kind of software is particularly useful for responding to questions regarding specific industries. Users may learn by regularly answering questions or exchanging views with other industry specialists using the website.

**In the late 1990s**, a free online service called Answer Point provided by Ask Jeeves, was launched, allowing users to ask questions and with the help of other people, have them answered. The slogan of the service, "The Ask Jeeves Answer Point is the place where you can ask and answer questions. Have a question? Post it! Know the answer? Post it! ", indicated the main function of it, which inspired the creation of later Q&A sites. The last archived version of the Ask Point was from late 2001 when it still allowed registration.

Since then, more and more sites have begun to offer Q&A services. Google launched its Q&A service called Google Questions and Answers in August 2001 which used Google staffers to answer questions by e-mail. A flat fee (US$3.00) was involved for an answer. In April 2002, Google launched Google Answers, which allowed users to post answers to questions, to replace its predecessor. Google Answers cost askers $2 to $200 for an accepted answer. By late December 2006, it was fully closed to new activity.

**In early 2000s**, Yahoo! launched its online Q&A service called Ask Yahoo!, which was later replaced by the beta version of Yahoo! Answers on December 8, 2005. Ask Yahoo! was discontinued in March 2006. Yahoo! Answers give members the chance to earn points, thus encouraging user participation. To support countries using non-English characters, Yahoo! Answers operate different platforms in some Asian countries, such as Yahoo! in Japan and as Yahoo! Knowledge in Korea, Taiwan, China, and Hong Kong.

**in June 2009**, Quora was founded, while the website was made available to the public on June 21, 2010. Users can collaborate by editing questions and suggesting edits to other users' answers.

**From 2010** with the widespread use of smartphones and tablets, there is an increasing number of Q&A sites that decide to launch mobile applications. Popular Q&A sites like Yahoo! Answers and Quora have launched their own mobile applications. There is also a booming of new Q&A software such as Canvass which purely rely on mobile applications as their service channel.

Many different sites have focused on helping programmers either beginner or expert to solve their problems in codes can be represented as following:

**Posts :**

User can interact with community by Posting his Question

* **Big text area**

It is the area where the user can write his question or reply to others questions by commenting.

**Some of its features are listed below:-**

1. User can upload images & files related to his question.
2. User can include links.
3. Posts can be written in different fonts,styles,sizes & colors.
4. User can write the code that he wants to ask about in a specific area.
5. User can use tags to relate his question with specific topic.
6. Ordered and unordered list.
7. Number of characters that user can type are limited to 600 characters.

* **Rating**

1. There are only postive rating.
2. The comments are rated by others and the answer that has the best rating will be marked as the best solution.
3. And the mark is a blue tick beside the comment.
4. Best rated comment will be put below the question so that other users searching for the same question can reach the best answer easily.

* **Profile**

Profile page includes basic information of the user:

1. Username (should be unique).
2. Password (should not be less than 12 characters and include at least one letter).
3. It contains his posts.
4. A tab including all the website questions.
5. A dropdown box for notifications.

* **User Should**

1. Login first in order to post his question or reply to others questions.
2. Make his question specific & clear as much as possible.
3. Help people with their problems so that others can help you with your problems.
4. Consider that the number of characters does not exceed the limit.