

# System Description

## Introduction

Code guide is a website service to everyone, especially people who are interested in programming. They face many problems while coding because they don't find the best function which executes their target perfectly.

It should offer millions of questions and answers about actual problems facing some users as a large question bank will be formed and it will increase incrementally by users' interaction.

It should offer the best online courses related to certain languages they want to learn and online problem solving tests so users can improve their skills.

It should provide experts' answers for questions asked by users using service "Ask a specialist".

It allows users to create groups where they can discuss certain problem or work on a certain project.

In order to simplify recognition of the system we divided it into many modules as the following:

**Modules:** that interact with system directly

1. Post Module
2. Specialist Module
3. Group Module
4. User Module

# Modules

## 1. Post

User can interact with community by Posting his Question

### A) Questions and Comments

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. Number of characters that user can type are limited to 600 characters.

### B) Language

The user decide which language he want to ask the question in or if he asking a general question.

User can show Posts related to certain language by filtering

All questions are tagged with their subject areas. Each can have up to 5 tags, since a question might be related to several subjects.

Click any tag to see a list of questions with that tag, or go to the tag list to browse for topics that interest you.

### C) Rates

The system enables evaluation for every post and question. The evaluation based on the quality of the generated questions.

System trust the user's ability to do evaluation. Users may rate the question and the answers.

By time the rating helps other user to find most high rated question and high rated answers. That helps users to find their answers easily.

### Its Features

1. There are only positive 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.

## 2. Specialist

This module provides specialist to sign up on site and answer the question asked by users for money and users can join in group with him and be in continuous contact with him.

User's questions appear on the home page for the specialist after signing in and he can show all users' questions.

Specialists can create groups with users to make a specific project where users can benefit from this group.

### A. Technical profile

On the specialist profile there will be:-

- His rating which the users gave to him.
- The number of questions he had answered.

- It has his technical skills and languages that he domains it.
- His gmail account so User's questions will be directed to the gmail of the specialists if they didn't open the website.

### **B. Income:**

Each Specialist according to his rates will be assigned to level of specialist and each level has it profit for answering the questions .

## **3. Group**

Groups module is a section in the website where users can learn , communicate and work on project together so that users can learn how to work in a team by the interactions between them .

Every group should have a main theme, idea or project. The users can add questions and set the expected answer through polls system. The admin user can control the group and who will enter that group.

The group specifications as follows

- System provide any number of questions in the group.
- System supports polls for users to help discussion.
- The polls are created by any users.
- Users can rate the questions and answers.
- Users can't access the group project question or posts unless they apply for it.

Groups can be created for multiple purposes such as Arranging and following projects and discussing certain ideas in specific field of coding.

### **A) Members**

The members of group either be instructors or students, it could have one or more specialist.

### **B) Posts**

The posts created in this group will be exclusive to this group.

Nobody outside this group can access this posts

### **C) Polls**

Admin of each group can make a poll for his students about the incoming events.

Students or members of the group could vote to this polls.

## **4. User**

### **A. Profile**

Profile page includes basic information of the user:

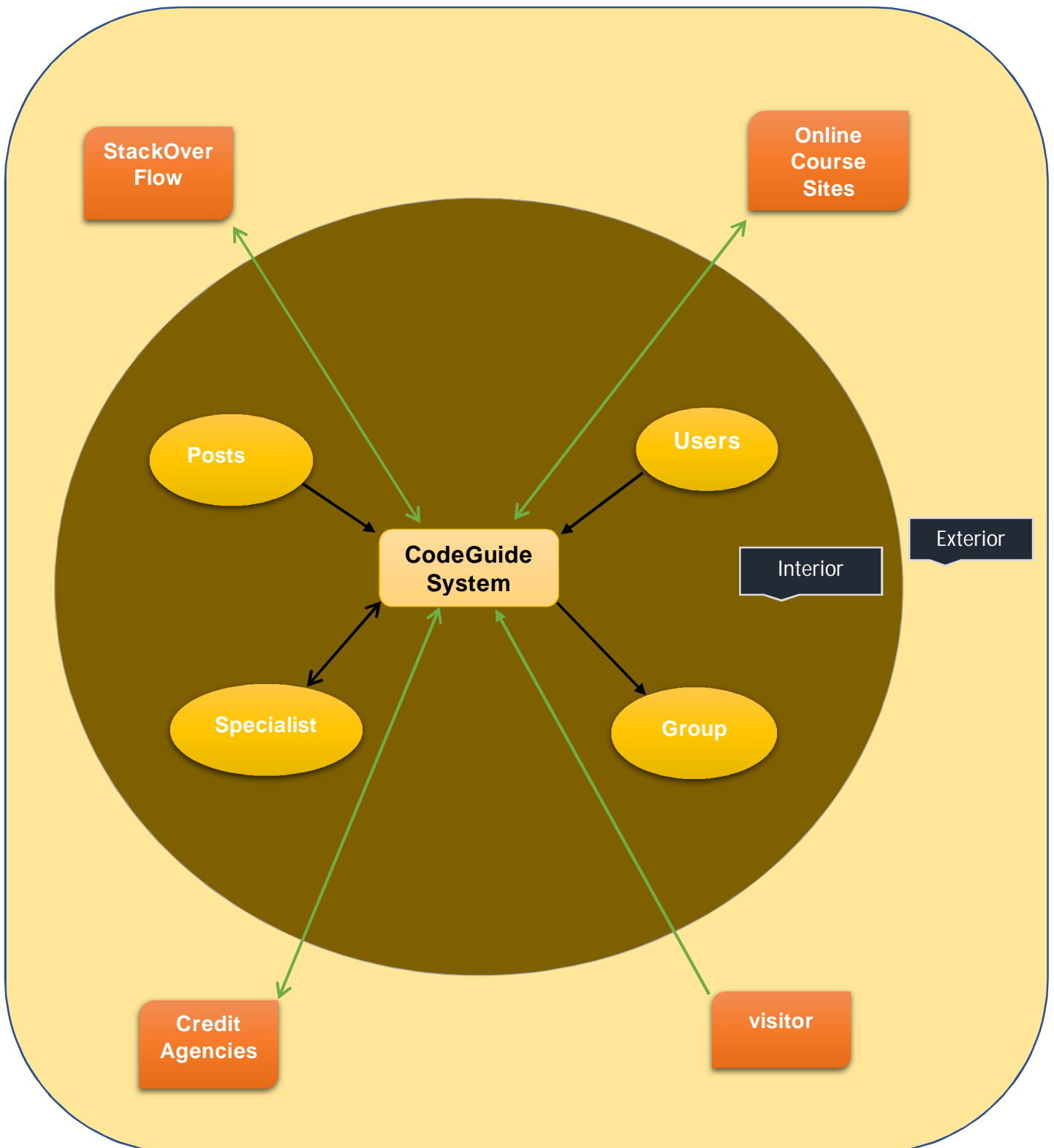
1. Username (should be unique).
2. Password (should not be less than 12 characters and include at least one letter).
3. Profile Picture
4. It contains his posts.
5. A tab including all the website questions.
6. A dropdown box for notifications.

### **B. 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.

## Context Diagram for Code Guide:



Post	<ul style="list-style-type: none"> <li>• Posts in Code Guide is simply questions asked by users about the problem faced them in programing</li> </ul>
Group	<ul style="list-style-type: none"> <li>• These groups are a tighter area for a group of users where they can communicate privately and easier than in public.</li> </ul>
User	<ul style="list-style-type: none"> <li>• This Module contain all information about users of Code Guide – including their every contribute they have done on CodeGuide –</li> </ul>
Specialist	<ul style="list-style-type: none"> <li>• Each specialist should have a professional account</li> <li>• Specialist will get paid according to its rates (more requests he gets more money he gains).</li> </ul>

## Modules

## Users

Administrator	<ul style="list-style-type: none"> <li>• They are one of the system users, They are actually the site managers and supervisors</li> </ul>
Users	<ul style="list-style-type: none"> <li>• They are either REGULAR users or PREMIUM users. Each have different options discussed below</li> </ul>
Visitors	<ul style="list-style-type: none"> <li>• Unregister users</li> </ul>
Specialists	<ul style="list-style-type: none"> <li>• They are very special users that have professional account, they get paid for answering questions</li> </ul>