CSC 431

IT Job Forum

Software Requirements Specification (SRS)

Team #12

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Version History

Version	Date	Author(s)	Change Comments
1.0.0	3.15	Yuxin, Siyuan, Zilin	First Draft
2.0.0	4.1	Yuxin, Siyuan, Zilin	Second Draft
3.0.0	5.1	Yuxin, Siyuan, Zilin	Third Draft. Add all missing stuff
3.0.1	5.5	Yuxin	Final Draft

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1. System Requirements

1.1 Functional Requirements

1.1.1 Sign Up

Table 1: Sign up

Title	Sign up
Description	A platform allows new users to create an account and receive their information. This is mandatory.

Priority	0
Precondition(s)	Navigate to the website to the login/register landing page
Basic Flow	1. User clicks sign up button to open form 2. User enters their phone number or email address 3. User enters their password 4. User directed to login page
Postconditions(s)	User directed to login page
Use Case Diagram	Figure 1

1.1.2 Login

Table 2: Login

Title	Login
Description	A platform for users to enter their existing account information and log in to their personalized page.
Priority	1
Precondition(s)	User account has is existed
Basic Flow	1. Navigate user to the login page 2. User enters email and password to login 3. Password forgotten, click link and it will navigate the option to reset the password 4. User clicks login button 5. Username and password are checked against the database
Postconditions(s)	The user can access the main page of the website
Use Case Diagram	Figure 1

1.1.3 Personal HomePage

Table 3: Personal HomePage

Title	Personal HomePage
Description	A page for users to upload the personal resume or enter the personal information. And users can just use this link for sharing with others.
Priority	2

Precondition(s)	the user has logged into his own account
Basic Flow	1. navigate to personal information page 2. user upload the personal resume 3. user enter the personal information
Postconditions(s)	prompt the share option,enabling users to jump to other apps to share the resume
Use Case Diagram	Figure 1

1.1.4 Create a Post

Table 4: Create a Post

Title	Create a Post
Description	Users can post their Job opportunity, or share interview experience on the website. This is the basic function of once our website supports login.
Priority	2
Precondition(s)	User is logged in
Basic Flow	1. Users click "create" to get ready to write in whatever they want. 2. Users must type in a topic. 3. Users choose a field, and the system will add a tag to this post automatically. 4. User clicks "finish" to post it.
Postconditions(s)	A post will be published with a tag
Use Case Diagram	Figure 1

1.1.5 Comment Post

Table 5: Comment

Title	Comment

Description	users can reply the posts of other users
Priority	2
Precondition(s)	there are existed posts and the user has already logged in
Basic Flow	1. navigate the users to the forum 2. show the posts of other users 3. users can comment the posts or reply the comments from other users
Postconditions(s)	update the page and show the up-to-date comments to all users
Use Case Diagram	Figure 1

1.1.6 Job Track Calendar

Table 6: Job Track calendar

Title	Job track calendar
Description	It will be a calendar, and users can update their calendars by themselves. And also we will add some job information based on their prefered companies in the backend. It is not a necessary function but it is still very useful.
Priority	4
Precondition(s)	User is logged in
Basic Flow	1. Users need to choose which companies they prefer when they create their accounts. 2. System will create the calendar automatically.
Postconditions(s)	A post will be published with a tag
Use Case Diagram	Figure 1

1.1.7 Setting

Table 7: Setting

Title	setting
Description	Users can change their profile which shows in their home page here. They can choose which section is private and which section is public. They can also change their status such as online and offline. It will be useful when users want to change something.
Priority	4
Precondition(s)	User must have created their own homepages
Basic Flow	1. Users click "setting" to get the changing interface. 2. Users can change all the fields. 3. User click "save" for save data, or "discard" to cancel
Postconditions(s)	User can have a updated homepage
Use Case Diagram	TBA

1.2 Non-Functional Requirements

1.2.2 Filter post

Table 8: Filter Post

Title	Filter post
Description	Use algorithms to personalize the recommendation of contents to different people. It will attract more users once we can filter the posts.
Priority	3
Applicable FR(s)	FR 1.1.4, 1.1.5

1.2.3 Security

Table 9: Security

Title	Security

Description	Use the TCP to transfer the data to ensure the data is not obtained by the third party. Security will be the top one task for our team.
Priority	0
Applicable FR(s)	FR1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5

1.2.4 Easy password recovery

Table 10: Easy password recovery

Title	Easy password recovery
Description	Users can recover their password through email, mobile phone or security questions. The system should provide users multiple ways to recover their accounts.
Priority	3
Applicable FR(s)	FR 1.1.2

2. System Constraints

2.1 Tool Constraints

2.1.1 Web Framework Backend Constraints

Table 11: Web Framework Backend Constraint

Title	Web Framework Backend Constraint
Description	We need to use springboot, maven, Mybatis for the back-end of the forum. They construct the structure of the forum, so the priority is highest.
Priority	0

2.1.2Web Framework Frontend Constraints

Table 12: Web Framework FrontEnd Constraint

Title	Web Framework FrontEnd Constraint
Description	We need to use Thymeleaf and Layui for the front-end UI. User needs an interface to do operations, so the priority is also highest.
Priority	0

2.2 Language Constraints

2.2.1 Backend Language

Table 13: Backend Language requirement

Title	Backend Language requirement
Description	Since we choose to use SpringBoot, Maven and Maybatis to construct the backend of our system, we are gonna use Java.
Priority	4

2.3 Hardware Constraints

We are using Alibaba Cloud for our deployment, so our hardware constraints are set by the Alibaba Cloud.

References:
- https://cn.aliyun.com

2.3.1 Storage Constraints

Table 14: Storage Constraints

Title	Storage Constraints

Description	Our RDS(Relational Database Service) is set by AliCloud. Therefore we can save all of our data to this remote database, and store some necessary data on the local disk.
Priority	4

2.4 Deployment Constraints

2.4.1 Deployment requirement

Table 15: Deployment constraint

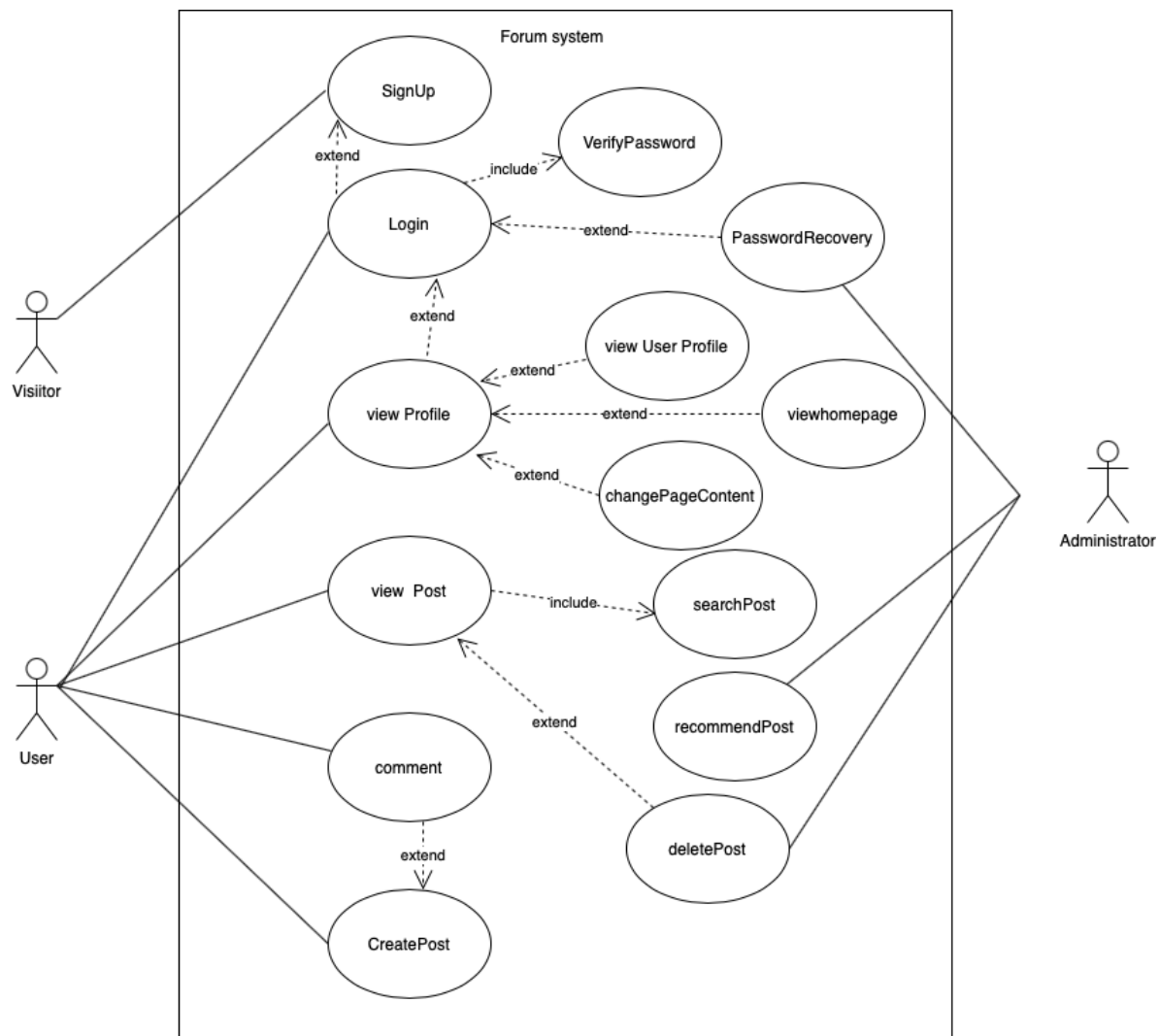| Title	Alibaba Cloud Deployment
Description	The forum will be deployed on Alibaba Cloud. If we want everyone to try to use our forum, we need to deploy our forum before the end of this semester.
Priority	2

2.5 Budget & Schedule Constraints

2.5.1 Time constraints

Table 16: time constraint

Title	Time Constraints
Description	We plan to deploy our forum before the end of the semester, but we do not have to.
Priority	3

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3. Requirements Modeling

3.1.1   Use case diagram

4. Evolutionary Requirements

4.1 Functional Requirements

4.1.1   Charge Requirement

Table 17: Charge Requirement

Title	Charge Requirement
Description	Users can pay, and make their posts to be at the top of the page. Thus more other users can see this post.
Priority	5
Precondition(s)	Create post
Postconditions(s)	posts will be pinned at the top
Use Case Diagram	none present

4.1.2 Organization Authentication Requirement

Table 18: authentication requirement

Title	authentication requirement
Description	users are linked to their own organization, then the data will be transferred to the server and server will fetch the users information from the same organization
Priority	5
Precondition(s)	users are logged in
Postconditions(s)	users from the same organization will be displayed in the friend recommendation list.
Use Case Diagram	none present

4.2 Non-Functional Requirements

4.2.1 CDN

Table 19: CDN

Title	CDN
Description	Use a geographically distributed group of servers which work together to provide fast delivery of Internet content. In the future, after we deploy our project on Alibaba Cloud, we might need this.
Priority	5
Applicable FR(s)	FR 1.1.3, 1.1.4, 1.1.5