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**Capstone Project Report**

**TripSharing**

|  |  |
| --- | --- |
| **Group** | |
| **Group Members** | Hà Văn Thái – SE04801  Nguyễn Văn Phong – SE05051  Trần Văn Phong – SE05048  Lê Xuân Trường – SE04616  Lý Phúc Linh – SE04693 |
| **Supervisor** | Đào Trọng Duy |
| **Capstone Project Code** | TripSharing |

**Hanoi, May 30th, 2019**

**Chapter 1: Introduction**

* 1. **Purpose**

This chapter provide an overview of the project include background information, a literature review of existing system and raising a proposal for ideas of improvement.

* 1. **Project Information**
* Project name: **TripSharing**
* Project code: **TRIPSHARING**
* Project group name: **SWP491\_G26**
* Project type: **Web Application**
* Timeline: **From 13th May 2019 to 30th August 2019**
  1. **The People**
     1. **Supervisors**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Full name** | **Phone** | **E-mail** | **Title** |
| Supervisor | Đào Trọng Duy | 0983204196 | duydt@fe.edu.vn | Lecturer |

Table -1: Supervisors' information

* + 1. **Team Members**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Full name** | **Phone** | **E-mail** | **Role in Group** |
| 1 | Hà Văn Thái | 0349940158 | thaihvse04801@fpt.edu.vn | Leader |
| 2 | Nguyễn Văn Phong | 0978296187 | phongnvse05051@fpt.edu.vn | Member |
| 3 | Trần Văn Phong | 0987489397 | phongtvse05048@fpt.edu.vn | Member |
| 4 | Lê Xuân Trường | 0964038801 | truonglxse04616@fpt.edu.vn | Member |
| 5 | Lý Phúc Linh | 0362442818 | linhlpse04693@fpt.edu.vn | Member |

Table 1-2: Team member's information

* 1. **Background**

Along with the development of technology, tourism demand is getting higher, especially young people. Nowadays, people mostly find information about where they want to go on the internet and social network like Facebook, TripAdvisor, Gody.vn, etc. But many websites only provide general information about the destination and only focus on advertising and support booking hotel, restaurant, travel tour…. We can find such post on Facebook but it scattered on many pages and there are many posts created for advertising purpose may make people concern about the correctness of the information.



Figure -1: Number of local tourists reach 80 million in 2018[[1]](#footnote-1)

Among young people, tourism for exploring and experience is becoming a new trend, and people usually want to share their experience online:

*“Khảo sát về xu hướng du lịch toàn cầu trong năm 2018 do Visa thực hiện với sự tham gia của hơn 15.000 người đến từ 27 quốc gia, trong đó có Việt Nam đã chỉ ra rằng khách du lịch hiện nay thường mong muốn đạt được cả hai mục tiêu “khám phá” và “tận hưởng” trong những chuyến đi của mình. Kết quả khảo sát đã đưa ra ba nhóm động lực chính cho những chuyến du lịch là: gắn kết gia đình, bạn bè (33%), thư giãn (11%) và trải nghiệm (10%). Ranh giới giữa những động lực thúc đẩy người dân đi du lịch đang dần bị xóa nhòa. Những người du lịch vì cảm giác “tận hưởng” thường đi để gắn kết với bạn bè, người thân hay đơn giản là tận hưởng thời gian nghỉ dưỡng của riêng mình. Riêng những du khách đi du lịch để “khám phá” có xu hướng trải nghiệm nhiều hơn với các nền văn hóa mới và thăm quan những điểm đến hấp dẫn. 63% người được hỏi trả lời rằng họ đi du lịch vì cả hai lý do này, tỉ lệ tương ứng tại Việt Nam là 72%.”[[2]](#footnote-2)*



Figure 1-2: Sharing travel information on social media[[3]](#footnote-3)

* + 1. **The exist sharing travel experience systems are focus on famous travel destination and booking services**

Our study shows that travel guides, travel destinations reviews websites are focusing too much on advertising and booking for travel destination than the travel experience of users. Example on Tripadvisor.com and Toidi.net are 2 big websites, but they don’t provide enough interaction between users, Toidi.net is more like a blog then the posts are subjective, on Tripadvisor.com people can post photo or review for a destination but there is no comment section for other to interact with each other. The creation of this project is aiming to improve the lack of interaction between users and focus more on sharing experiences through the trip.

* + 1. **TripAdvisor’s Advantages and Disadvantages**
       1. **TripAdvisor’s Advantages**
* They already have a booking system.



Figure 1-3: Booking function on TripAdvisor

* User can create a virtual trip



Figure 1-4: Creating a virtual trip function on TripAdvisor

* + - 1. **TripAdvisor’s Disadvantages**
* User can’t comment on other’s posts or photos so they are lack of interaction between users.
* Don’t support users for writing a long sharing experience post, like blog.
  1. **Proposal of System**
     1. **Our Proposal System**

After reviewing all properties of the existing systems as well as the travel trend of young people in Viet Nam, we have come to decision to develop a travel sharing system which allows travelers to share their travel experiences by images, articles or blogs. It will make easier for other travelers to prepare their plans. The purpose of the system is creating a travel community to exchange information. The system is going to encourage travelers to share their experiences by recording their contributions as points and rank all contributors. If contributors have a high rank, they will receive many incentives from the system.

The system does not focus on booking services. A common trip includes three stages. The first stage is planning, the second is experiencing, and the last is sharing. Our system is going to focus on the sharing stage.

* + - 1. **System Functions**
* Allow users to register/sign in with email address.
* Allow users to create/edit their own profile.
* Allow users to search travel destination.
* Allow users to choose interesting topic.
* Allow users to create/edit/delete their post.
* Allow users to like/unlike a post.
* Allow users to share a post to social media.
* Allow users to bookmark a post.
* Allow users to comment to a post.
* Allow users to report a post/comment.
* Allow users to create/edit/delete their virtual trips.
* Allow users to follow/unfollow other users.
* Allow users to block/unblock other users.
* Allow users to create/edit/delete their finding companion posts.
* Allow users to join a finding companion group.
* Allow users to send/receive messages to other users.
* Allow Administrators to manage users’ account, users’ posts, users’ comments.
  + - 1. **The TripSharing User Process**

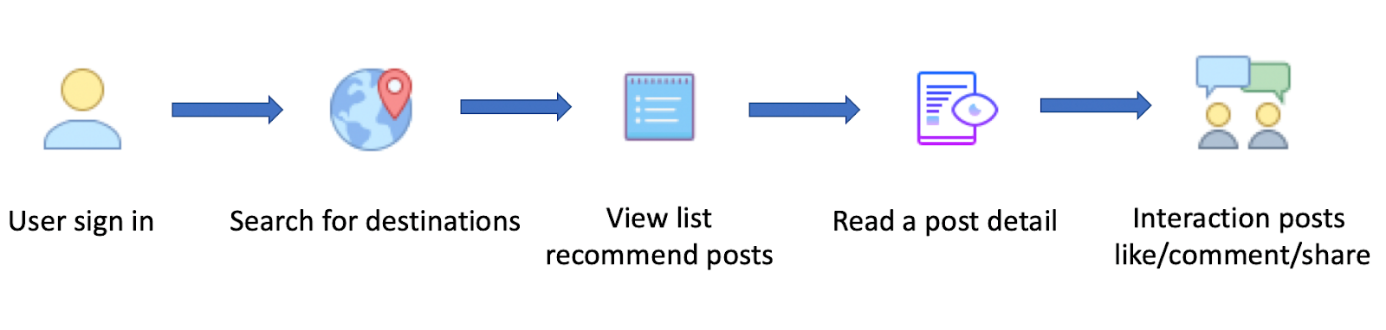
**

Figure -1: User reads and interacts with a post

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Figure 1-2: Users use Finding Companions function

* + - 1. **Out of Scope Functions**
* Manage group of people who use Finding Companions function.
* Manage travel places obtained from Google Map.
  + - 1. **Special Approaches**
* Using Microservices architecture for application’s deployment.
* Using Docker to compose the project into containers to deploy on Google Cloud.
* Using Google Cloud Kubernetes Engine as deployment host for scaling and load balancing.
* Use Git as source code version control, hosted on Github.
* Having a separate background service to handle heavy tasks.
* Using Google Pub Sub for communicating between microservices.
* Using Google Cloud Storage for images.
* For web frontend system:
* Using Angular 7 for web component rendering.
* Using Angular Material to create all web form components.

**Chapter 2: Project plan**

* 1. **Purpose**

This chapter provides an overview of the project plan includes project organization and project management plan

* 1. **Project Organization**
     1. **Software Development Process**

Figure 2-1: Iterative and Incremental Software Development Process[[4]](#footnote-4)

TripSharing project uses the Iterative and Incremental Software Process Model as show in the figure above, which describes the overall lifecycle process.

The Iterative and Incremental Software Process Model is mostly used when the scope of the project is big, the major requirements are defined clearly, some more details will be added later. By using this process model, we break down the developing system tasks into series of smaller tasks which will complete separately, evaluated, and subsequently re-worked until the system perform adequately. In addition, the iterative model is easier than other models when the issues are discovered. The feedbacks are immediately given, and solutions are proposed right on the spot.

* + 1. **Role and Responsibilities**

|  |  |
| --- | --- |
| **Role** | **Responsibilities** |
| Project Manager | Planning, developing schedules, coordinating communication,  generally responsible for keeping the team’s focus on the main  goal |
| Business Analysis Leader | Responsible for managing Business Analyst team and working with them in Analyzing an organization or business domain. |
| Business Analyst | Analyzes an organization or business domain and documents its business or processes or systems. |
| Design Leader | Responsible for managing Design team and working with them to create a best user interface design for our product. |
| Designer | Involve to design product’s user interface. |
| Technical Leader | Responsible for choosing and deciding what technologies should  be used, as well as for overseeing the work being done by other  developers. |
| Developer | Involve to code the product and review code of other developers. |
| Test Leader | Responsible for choosing and deciding what testing tools and techniques should be used, as well as keep the progress of test team on track. |
| Tester | Involve testing the product. |

Table -1: Role and Responsibilities

* + 1. **Organization Structure**

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Figure 2-2: Organization Structure

* + 1. **Project Team Member**

|  |  |
| --- | --- |
| **Team Member** | **Role** |
| Ha Van Thai | Project manager, business analyst, developer |
| Nguyen Van Phong | Technical leader, designer |
| Tran Van Phong | Design leader, developer, tester |
| Le Xuan Truong | Business analysis leader, developer, tester |
| Ly Phuc Linh | Test leader, developer |

Table 2-2: Project Team Member

* + 1. **Tools and Techniques**

|  |  |
| --- | --- |
| **Programing Languages:** | C#, JavaScript |
| **Frameworks:** | Angular 7, Angular material |
| **Software Architecture:** | Microservices |
| **Version control:** | Git |
| **IDEs / Editors:** | Visual studio, Visual studio code |
| **UML Tools:** | Astah UML |
| **Web Server:** | Nginx |
| **DBMS:** | MongoDB |
| **Deployment Server:** | Google cloud |
| **Project Management Tools:** | Microsoft Project 2013 |
| **Process Model:** | Iterative and Incremental Software Process Model |
| **Development Process:** | Behavior-driven development, Test-driven development, Continuous integration, Continuous delivery |

Table 2-3: Tools and Techniques

* 1. **Project Management Plan**
     1. **Tasks**
     2. **Meeting Minutes**

All meeting minutes will be written following this template:

|  |  |  |  |
| --- | --- | --- | --- |
| **Meeting/Project Name:** | TripSharing | | |
| **Date of Meeting:** | 06/06/2019 | **Time: (Type)** | 3 hours  (face-to-face) |
| **Meeting Called by:** | ThaiHV | **Location:** | HB206L |
| **Note Taker:** | PhongTV | **Time Keeper:** | PhongNV |
| **1. Meeting Objective** | | | |
|  | | | |
| **2. Attendance** | | | |
| **Name** | **Role** | **Email** | **Phone** |
| ThaiHV | Project Manager  Developer  Business Analyst | thaihvse048010@fpt.edu.vn | 0349940158 |
| PhongNV | Technical Leader  Designer | phongnvse05051@fpt.edu.vn | 0978296187 |
| PhongTV | Design Leader  Developer  Tester | phongtvse05048@fpt.edu.vn | 0987489397 |
| TruongLX | Business Analysis Leader  Developer  Tester | truonglxse04616@fpt.edu.vn | 0964038801 |
| LinhLP | Test Leader  Developer | linhlpse04693@fpt.edu.vn | 0362442818 |
| **3. Content** | | | |
|  | | | |
| **4. Note** | | | |
|  | | | |

Table 2-4: Meeting Minutes

* + 1. **Code Conventions**

We strictly follow Google JavaScript Style Guide and Microsoft C# Programing Guide as the coding convention for the project. Specific convention rules can be found on these pages.

JavaScript: <https://google.github.io/styleguide/jsguide.html>

C#: <https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/inside-a-program/coding-conventions>



Figure 2-3: Google JavaScript Style Guide

* + 1. **Risk Management Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Name | Prevention | Correction | Status |
| R1 | Miscommunication | Any problem raised has to be documented or filed. Team members should express their opinion clearly. | Miscommunication must be resolved early. | Closed |
| R2 | New technology | Choosing technology carefully and based on team member’s qualification. All member must develop self-learning skill. | The technology choice should be consider carefully, well explained and training for member if necessary. | Closed |
| R3 | Member idea conflict | Member is free to express their idea and discuss with others to find the most suitable solution. | Analyze any idea carefully and base on reality and possibility, solve conflict as soon as possible. | Closed |
| R4 | Business problem | Understand business of project, consider if its fit applicability, reality and technology possibility. Ask supervisor if needed. | Project business must be tight and realistic. | Closed |
| R5 | Illness or absence  of team members | Member must notice to the  team about absence period  and the plan of how to  keep up with the work  process. | Ensure that the absence  of a member won’t  affect others and  always have plans to  deal with this problem. | Closed |
| R6 | Resources were lost or deleted | Team must have several online and offline back up copy of project. | At least 3 back up way such as Github, Google Drive, etc. and offline copy on each member computer. | Closed |
| R7 | Illness or absence  of team members | Member must notice to the  team about absence period  and the plan of how to  keep up with the work  process. | Ensure that the absence  of a member won’t  affect others and  always have plans to  deal with this problem. | Closed |
| R8 | Changes of software architecture | Read and understand the software architecture thoroughly before starting to apply it to the project | Changes of software architecture must be done early. | Closed |

Table 2-5: Risk Management Plan

* + 1. **Communication Plan**

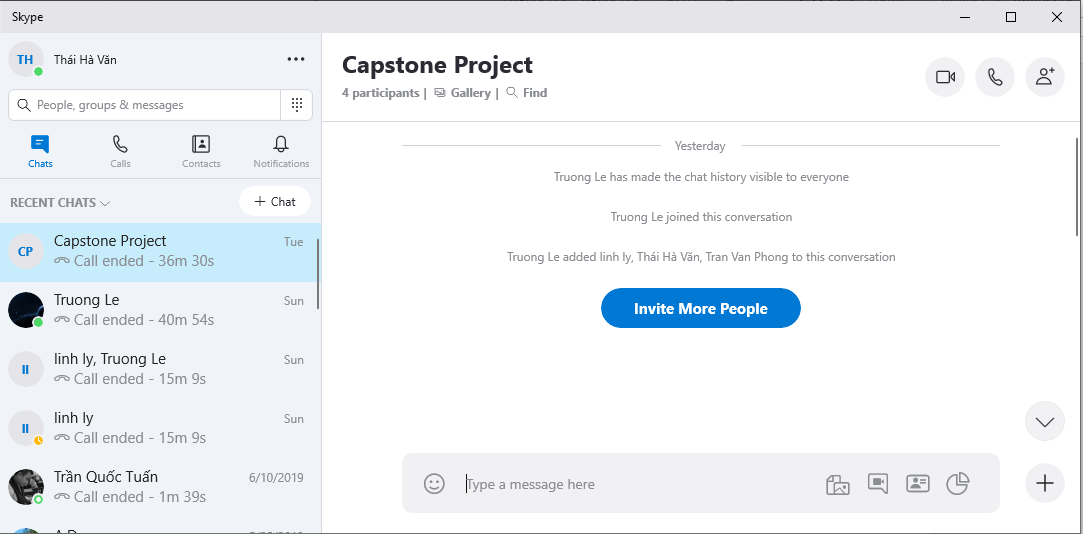
**Weekly meeting schedule:** We follow the Iterative and Incremental Process Model, and we separate the project into two main team, back-end API team and front-end web app team. Each team will do the tasks the task assigned to team members by the Team Leader and depending on difficulty the Technical Leader will assign deadlines for each task. We have a meeting every Thursday to update all team members about what has been done during last week.

**Daily meeting schedule:** Each sub team has one development team with different schedule and deadlines. Before the daily meetings, each member will be telling:

* What he has completed.
* What he is working on.
* When he will finish.
* What issues he is encountering, or if he needs assistance.
* What he will be doing after finishing the task.

**Unscheduled meeting:** Assuming someone has encountered a serious problem that he wants to solve immediately, we will have a meeting via some online channel: Skype, or Phone. Face to face meeting in any emergency cases.

**Communication channel:** Our main communication channel is Skype and Facebook group. We use TeamViewer for assisting team member when he meets technical issues.



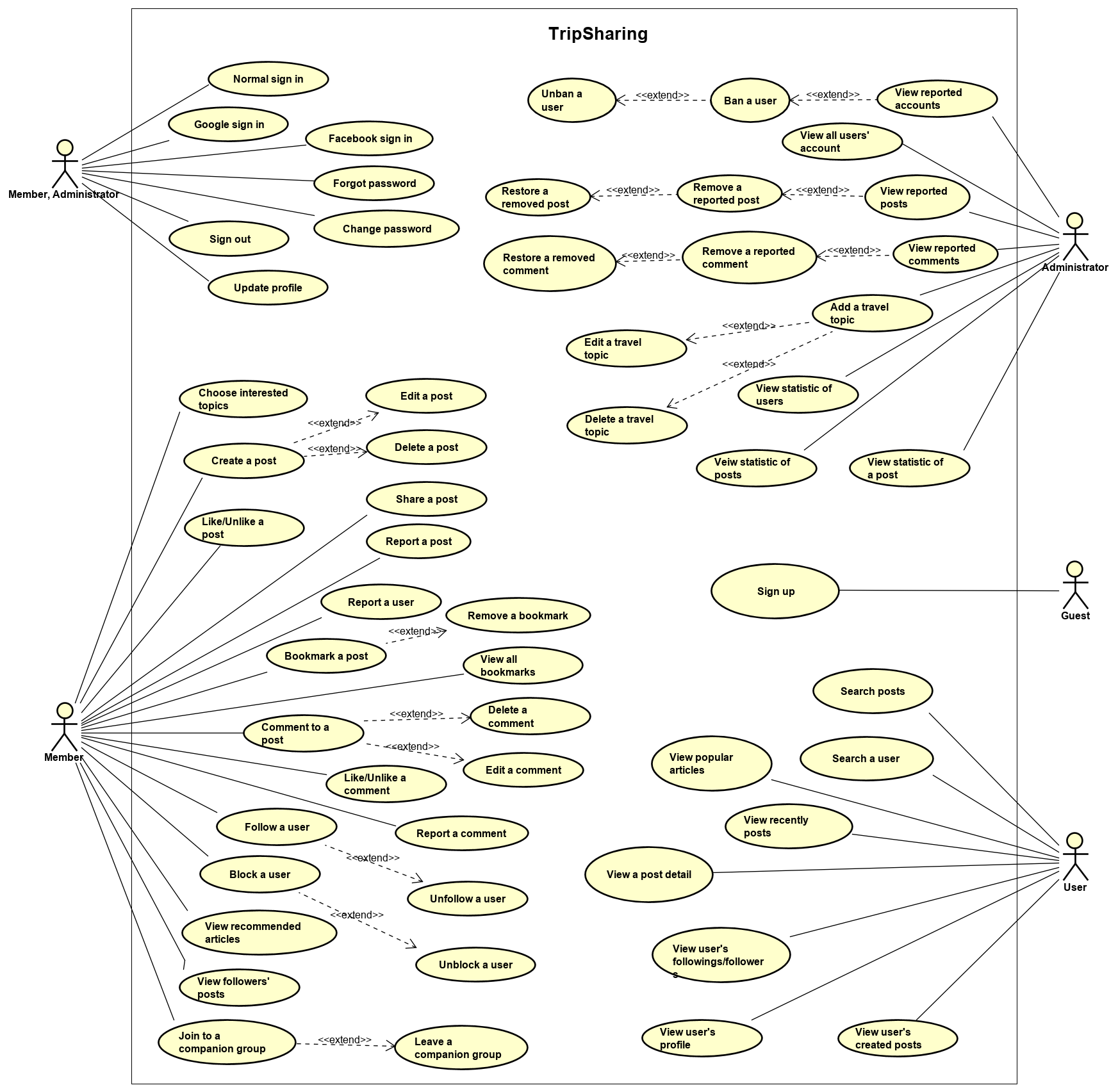
**Chapter 3: Software Requirement Specification**

**3.1 Purpose**

This chapter contains details about functional and non-functional requirements the website. Constraints and detailed requirements are specifically described for developers to follow when completing the tasks.

**3.2 Functional Requirements**

**3.2.1 Use Case Diagram**

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**3.2.2 Business Rules**

|  |  |
| --- | --- |
| **No** | **Description** |
| **B1** | The email must not be empty and valid. |
| **B2** | The confirm password must be matched with the new password. |
| **B3** | Username must not be empty and not be longer than 100 characters |
| **B4** | Image file's mime type must be: "image/png" or "image/jpeg". |
| **B5** | Maximum file size allowed is 10Mb |
| **B6** | Eve |
| **B7** | The root Administrator has the highest privilege. |
| **B8** | An Administrator can: ban/unban users, remove/restore posts, remove/restore comments. |
| **B9** | A banned user can’t post articles, comment to a post or chat with other users. |
| **B10** | When user sign out, his/her current access token is blacklisted. |
| **B11** | An article title must not be empty and not be longer than 1000 characters. |
| **B12** | An article content must not be empty and not be longer than 100,000 characters. |
| **B13** | An article must be tagged to at least one travel place. |
| **B14** | An article must be tagged to at least one travel topic. |
| **B15** | If an he/she has been blocked by another user, then the blocked user can’t she any post, comment or other activities of him/her. |
| **B16** | A comment must not be empty and not be longer than 10,000 characters. |
| **B17** | Each destination in virtual trip has a note and not be longer than 500 characters. |
| **B18** | A chat message must not be empty and not be longer than 10,000 characters. |
| **B19** | Member can report any other member, post or comment |
| **B20** | When a finding companion post is expired, users can’t join to that companion group. |
| **B21** | Contribution points formula:   * Create a post: +5 points * For each 100 likes on a post: +1 points |

**3.2.3 Use Cases**

|  |  |
| --- | --- |
| **Actor** | **Description** |
| Guest | Anyone who visits the website and doesn’t have an account yet. |
| Member | Those who has registered an account on TripSharing. |
| Administrator | Who has the highest the permission level and has responsible for managing the entire website. |
| User | Any normal user of following types: Guest, Member, and Administrator |

|  |  |  |
| --- | --- | --- |
| ID | Actor | Name |
| UC-001 | Guest | Sign up |
| UC-002 | Member, Administrator | Google sign in |
| UC-003 | Member, Administrator | Facebook sign in |
| UC-004 | Member, Administrator | Normal sign in |
| UC-005 | Member, Administrator | Forgot password |
| UC-006 | Member, Administrator | Sign out |
| UC-007 | Member, Administrator | Change password |
| UC-008 | Member, Administrator | Update profile |
| UC-009 | Member | Choose interested topic |
| UC-010 | Member | Create a post |
| UC-011 | Member | Edit a post |
| UC-012 | Member | Delete a post |
| UC-013 | Member | Like/Unlike a post |
| UC-014 | Member | Share a post |
| UC-015 | Member | Report a post |
| UC-016 | Member | Bookmark a post |
| UC-017 | Member | View all bookmarks |
| UC-018 | Member | Remove a bookmark |
| UC-019 | Member | Comment to a post |
| UC-020 | Member | Edit a comment |
| UC-021 | Member | Delete a comment |
| UC-022 | Member | Like/Unlike a comment |
| UC-023 | Member | Report a comment |
| UC-024 | Member | Follow an user |
| UC-025 | Member | Unfollow an user |
| UC-026 | Member | Block an user |
| UC-027 | Member | Unblock an user |
| UC-028 | Member | Report an user |
| UC-029 | Member | Join to a companion group |
| UC-030 | Member | Leave a companion group |
| UC-031 | Member | Remove a joined companion |
| UC-032 | Member | Send/receive messages |
| UC-033 | Member | View recommended articles |
| UC-034 | Administrator | View all users' account |
| UC-035 | Administrator | View reported accounts |
| UC-036 | Administrator | Ban an user |
| UC-037 | Administrator | Unban an user |
| UC-038 | Administrator | View reported posts |
| UC-039 | Administrator | Remove a reported post |
| UC-040 | Administrator | Restore a removed post |
| UC-041 | Administrator | View reported comments |
| UC-042 | Administrator | Remove a reported comment |
| UC-043 | Administrator | Restore a removed comment |
| UC-044 | Administrator | Add a travel topic |
| UC-045 | Administrator | Edit a travel topic |
| UC-046 | Administrator | Delete a travel topic |
| UC-047 | Administrator | View statistic of users |
| UC-048 | Administrator | View statistic of posts |
| UC-049 | User | Search post by travel destinations |
| UC-050 | User | Search a user |
| UC-051 | User | View popular articles |
| UC-052 | User | View recently posts |
| UC-053 | User | View a post detail |
| UC-054 | User | View user's profile |
| UC-055 | User | View user's followings/followers |
| UC-056 | User | View user's created posts |

**3.2.3.1 Guest**

*3.2.3.1.1 Sign up*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-001 Sign Up** | | |
| Created by: | **PhongTV** | Date created: | **01/06/2019** |
| Primary Actor: | **Guest** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to create an account. | | |
| Preconditions: | Guest has not signed in the website. | | |
| Post conditions: | New account is added to database. | | |
| Normal Flow: | 1. User clicks “Đăng nhập” button on the header. 2. System display a form for sign in function 3. User clicks “Đăng ký” button at the bottom of the form. 4. Browser redirects to the sign up page. 5. User enters email, password and re-enter password and must agree with policy. 6. Click “Đăng kí” button, system send verify email, save user information. 7. System directs to home page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | B1, B2 | | |

**3.2.3.2 Member, Administrator**

*3.2.3.2.1 Google sign in*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-002 Google sign in** | | |
| Created by: | **PhongTV** | Date created: | **05/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user sign in to website with a Google account | | |
| Preconditions: | 1. User has registered an account 2. User has not signed in the website | | |
| Post conditions: | User has signed in successfully | | |
| Normal Flow: | 1. User clicks “Đăng nhập” button on the header 2. System display Login form 3. User clicks “G” button on the login form. 4. Browser displays another window that contains Google sign in form. 5. User selects a Google account or enters email and password 6. Google verifies login and closes the popup. 7. System directs to home page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 1. Cannot communicate with Google API 2. Google API return error | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.2.2 Facebook sign in*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-003 Facebook sign in** | | |
| Created by: | **PhongTV** | Date created: | **02/08/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user sign in to website with a Facebook account | | |
| Preconditions: | 1. User has registered an account 2. User has not signed in the website | | |
| Post conditions: | User has signed in successfully | | |
| Normal Flow: | 1. User clicks “Đăng nhập” button on the header. 2. System display Login form 3. User clicks “F” button on the login form. 4. Browser displays another window that contains Facebook sign in form. 5. User enters his/her Facebook username and password 6. Facebook verifies login and closes the popup. 7. System directs to home page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 1. Cannot communicate with Facebook API 2. Facebook API return error | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.2.3 Normal sign in*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-004 Normal sign in** | | |
| Created by: | **PhongTV** | Date created: | **01/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user sign in to website with a registered account | | |
| Preconditions: | 1. User has registered an account 2. User has not signed in the website | | |
| Post conditions: | User has signed in successfully | | |
| Normal Flow: | 1. User clicks “Đăng nhập” button on the header 2. System display login form 3. User enters his/her Email and Password 4. User click “Đăng nhập” button on login form 5. System verifies username, password and close the popup. 6. System directs to home page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | B1, B3 | | |

*3.2.3.2.4 Forgot password*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-005 Forgot Password** | | |
| Created by: | **PhongTV** | Date created: | **02/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user reset password if his/her forgot the password | | |
| Preconditions: | User has signed up with an account successfully | | |
| Post conditions: | New password has updated in database | | |
| Normal Flow: | 1. User clicks “Đăng nhập” button on the header 2. System display Login Form 3. User clicks “Quên mật khẩu” link on login form 4. Browser redirects to reset password page 5. User enter email registered account 6. Click “Lấy lại mật khẩu” button on the form 7. Display success message and redirect to home page | | |
| Alternative Flows: | N/A | | |
| Exceptions: | User enters an email that doesn’t exist | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.2.5 Sign out*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-006 Sign out** | | |
| Created by: | **PhongTV** | Date created: | **02/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user to sign out from the website | | |
| Preconditions: | User has signed in with an account successfully | | |
| Post conditions: | User has signed out | | |
| Normal Flow: | 1. User clicks the user avatar on the header 2. System display a list of options 3. User clicks option “Đăng xuất” 4. User has signed out from the website | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | B10 | | |

*3.2.3.2.6 Change password*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-007 Change password** | | |
| Created by: | **PhongTV** | Date created: | **02/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user to change his/her password | | |
| Preconditions: | User has signed in with an account successfully | | |
| Post conditions: | New password has updated on the database | | |
| Normal Flow: | 1. User clicks user avatar on the header. 2. System display a list option 3. User clicks option “Thay đổi mật khẩu” on the list 4. Browser redirects to the change-password page. 5. User enter old password, new password and reenter password. 6. After complete, user click “Lưu” button 7. System will display message confirm and change new password | | |
| Alternative Flows: | N/A | | |
| Exceptions: | User sign up with Google account or Facebook account don’t have password to change. | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.2.7 Update profile*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-008 Update profile** | | |
| Created by: | **PhongTV** | Date created: | **05/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: | **Administrator** |
| Trigger: | N/A | | |
| Description: | Allow user update his/her profile | | |
| Preconditions: | User has signed in successfully | | |
| Post conditions: | New information has updated on database | | |
| Normal Flow: | 1. User clicks user avatar on the header 2. System display a list option 3. User clicks option “Trang cá nhân” 4. Browser redirects to his/her personal page 5. Click “Chỉnh sửa trang cá nhân” 6. User update information on the displayed popup 7. Click “Cập nhật” to finish update | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

**3.2.3.3 Member**

*3.2.3.3.1 Choose interesting topic*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-009 Choose interesting topic** | | |
| Created by: | **PhongTV** | Date created: | **02/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user choose travel topics he/she interests in. | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | His/her interested topic information has updated on database | | |
| Normal Flow: | 1. User sign-in for the first time 2. System display a page to complete user information 3. User fill all the required field and click “Tiếp tục” button 4. System display a list interesting topic 5. User choose three or more topics 6. User clicks “Tiếp tục” button 7. System redirects to home page. | | |
| Alternative Flows: | 1. On his/her personal page, user click “Chỉnh sửa thông tin cá nhân” 2. On the displayed popup, click “Tiếp tục” button 3. User selects/unselects travel topics 4. User clicks “Cập nhật” button | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.2 Create a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-010 Create a post** | | |
| Created by: | **PhongTV** | Date created: | **04/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user create a post to share his/her travel experience | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. Post information has created on database 2. System displays a popup to notify that a post has created successfully. | | |
| Normal Flow: | 1. User clicks “+” button on the header. 2. System display a list of post’s types. 3. User choose the post’s type he/she wants to create (article, virtual-trip, finding-companion post). 4. System redirect to the create-post page. 5. User fills all needed information then click “Tạo bài viết” button. 6. System displays a popup notify that a post is created successfully. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | System can’t communicate with Google Map API in creating a virtual-trip function. | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | B4, B5, B6, B11, B12, B13, B14 | | |

*3.2.3.3.3 Edit a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-011 Edit an article** | | |
| Created by: | **PhongTV** | Date created: | **04/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to edit his/her created post. | | |
| Preconditions: | 1. User has signed in to the website 2. User has created a post | | |
| Post conditions: | Post’s information has updated on database | | |
| Normal Flow: | 1. From post detail page, user click “…” icon. 2. System displays a list of options 3. User click “Chỉnh sửa” option 4. User edit the information he/she want to change 5. User click “Lưu thay đổi” button 6. System displays a popup that notify a post is updated successful. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | System can’t communicate with Google Map API in editing a virtual-trip function. | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | B11, B12, B13, B14 | | |

*3.2.3.3.4 Delete a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-012 Delete a post** | | |
| Created by: | **PhongTV** | Date created: | **05/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to delete a post | | |
| Preconditions: | 1. User has signed in to the website 2. User has created a post | | |
| Post conditions: | Post’s is\_active property has changed to “false” on database | | |
| Normal Flow: | 1. From post detail page, user click “…” icon. 2. System displays a list of options 3. User click “Xóa” option. 4. System display popup confirm that if user really want to delete this post. 5. System display pop-up to notify that a post has been deleted. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.5 Like/Unlike a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-013 Like/Unlike a post** | | |
| Created by: | **PhongTV** | Date created: | **07/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to like/unlike a post | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. Like information has added on database. 2. Number of post’s like is increase/decrease by one. | | |
| Normal Flow: | 1. From post detail page, user click “like” button (thumb-up button) | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.6 Share a post****<PENDING>***

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-014 Share a post** | | |
| Created by: | **PhongTV** | Date created: | **02/08/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to share a post on facebook | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | N/A | | |
| Normal Flow: | ***<PENDING>*** | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 1. Can’t communicate with Facebook API 2. Facebook responds error | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.7 Report a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-015 Report a post** | | |
| Created by: | **PhongTV** | Date created: | **20/07/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | User sees a post is violated and want to report that post. | | |
| Description: | Allow user to report a post | | |
| Preconditions: | User has signed in with an account successfully | | |
| Post conditions: | A new report record has added on database. | | |
| Normal Flow: | 1. From post detail page, user click “…” icon. 2. System displays a list of options 3. User clicks “Báo cáo vi phạm” option 4. System displays a list of violation reasons. 5. User chooses one or more reason. 6. User click “Gửi” button. 7. System displays a message to notify that user has sent report successfully. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.8 Bookmark a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-016 Bookmark a post** | | |
| Created by: | **PhongTV** | Date created: | **7/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | User sees a post that he/she want to save to read later | | |
| Description: | Allow user to bookmark a post | | |
| Preconditions: | User has signed in with an account successfully | | |
| Post conditions: | 1. A new bookmark record has added on database. 2. Bookmark icon has change color | | |
| Normal Flow: | 1. From a page that display a list of post. 2. User click bookmark icon in the post cover image. | | |
| Alternative Flows: | 1. From a page that display a list of post. 2. User click on title and go to post detail page. 3. Click bookmark icon in left of the post. | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.9 View all bookmark*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-017 View all bookmarks** | | |
| Created by: | **PhongTV** | Date created: | **7/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view all bookmarked posts. | | |
| Preconditions: | 1. User has signed in with an account successfully 2. User has bookmarked at least a post | | |
| Post conditions: | A list of bookmarked posts is displayed. | | |
| Normal Flow: | 1. From personal page, user click “Bài viết đã lưu” button 2. Browser redirects to the list-bookmarks page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.10 Remove a bookmark*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-018 Remove a bookmark** | | |
| Created by: | **PhongTV** | Date created: | **7/06/2019** |
| Primary Actor: | **Member** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to remove a bookmarked post from his/her list. | | |
| Preconditions: | 1. User has signed in with an account successfully 2. User has at least one bookmarked post. | | |
| Post conditions: | A bookmark record has been deleted on database | | |
| Normal Flow: | 1. From personal page, user click “Bài viết đã lưu” button 2. Browser redirects to the list-bookmarks page. 3. User click “x” icon on post that he/she wants to remove. 4. A post is removed from list. | | |
| Alternative Flows: | If a bookmarked post is displayed on list of post page:   1. From a page that display a list of post. 2. User click bookmark icon in the post cover image.   If user is viewing bookmarked post on detail page:   1. Click bookmark icon on the left of the post. | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Medium | | |
| Business Rules: | N/A | | |

*3.2.3.3.11 Comment to a post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-019 Comment to a post** | | |
| Created by: | **PhongNV** | Date created: | **07/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to comment on a post | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. A new comment record has added on database 2. A new comment is displayed on comment section of post detail page. | | |
| Normal Flow: | 1. At post detail page, user scrolls to the end of page 2. User write a comment. 3. User presses click “comment” button. 4. System displays a new comment at the comment section. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | B16 | | |

*3.2.3.3.12 Edit a comment*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-020 Edit a comment** | | |
| Created by: | **PhongNV** | Date created: | **8/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to edit a comment which he/she has created. | | |
| Preconditions: | 1. User is signed in to the website 2. User has commented to a post. | | |
| Post conditions: | 1. Comment information has updated on database 2. Comment data has changed on front-end | | |
| Normal Flow: | 1. At post detail page, user scrolls to the end of page 2. At the comment section, user clicks “…” on the comment he/she want to edit. 3. A popup is displayed with a list of options. 4. User clicks on “Chỉnh sửa” option in popup. 5. User edits comment. 6. User presses key enter to finish. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | B16 | | |

*3.2.3.3.13 Delete a comment*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-021 Delete a comment** | | |
| Created by: | **PhongNV** | Date created: | **08/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to delete a comment which he/she has created. | | |
| Preconditions: | 1. User is signed in to the website 2. User has commented to a post. | | |
| Post conditions: | 1. Comment is\_active property has been changed to false on database. 2. That comment has been removed on front-end | | |
| Normal Flow: | 1. At post detail page, user scrolls to the end of page 2. At the comment section, user clicks “…” on the comment he/she want to edit. 3. A popup is displayed with a list of options. 4. User clicks on “Xóa” option in popup. 5. System display a popup to confirm if user is really want to delete this comment. 6. User clicks on “Tiếp tục” button to delete this comment. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.14 Like/Unlike a comment*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-022 Like/Unlike a comment** | | |
| Created by: | **PhongNV** | Date created: | **08/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to like/unlike a comment | | |
| Preconditions: | User has signed in to the website. | | |
| Post conditions: | 1. A “like” has been added/removed on database 2. Number of likes on the comment is increased/decreased. | | |
| Normal Flow: | 1. From a post detail page, user scrolls to the comment section. 2. User click on thumb-up button to like/unlike a comment | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.15 Report a comment*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-023 Report a comment** | | |
| Created by: | **PhongNV** | Date created: | **08/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | User wants to report a comments | | |
| Preconditions: | 1. User is signed in to the website 2. User has commented to a post. | | |
| Post conditions: | A new report record has been added on database. | | |
| Normal Flow: | 1. From post detail page, user scrolls to the comment section. 2. User clicks on “…” icon at the comment he/she wants to report 3. User clicks on “Báo cáo vi phạm” option in popup. 4. System displays a list of violation reason for user to choose.   10. User selects one ỏ more reasons to report or write another reason.  11. User clicks to button “Gửi” to send report. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.16 Follow a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-024 Follow a user** | | |
| Created by: | **PhongNV** | Date created: | **15/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to follow other users | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. Follow record has been added on database 2. The “Theo dõi” button is disappeared or changed to “Đã theo dõi”. | | |
| Normal Flow: | 1. User go to the user’s personal page that he/she wants to follow. 2. Click on “Theo dõi” button at the right of user’s name 3. The “Theo dõi” button is changed to “Đã theo dõi”. | | |
| Alternative Flow: | At list-posts page:   1. User click on “Theo dõi” button on the post item. 2. The “Theo dõi” button is disappeared.   At list-users page:   1. User click on “Theo dõi” button on the user item. 2. The “Theo dõi” button is disappeared. | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: |  | | |

*3.2.3.3.17 Unfollow a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-025 Unfollow a user** | | |
| Created by: | **PhongNV** | Date created: | **15/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to unfollow a user that he/she has already followed. | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. Follow record has been delete on database 2. The “Theo dõi” button is appeared or changed from “Đã theo dõi”. | | |
| Normal Flow: | 1. User go to the user’s personal page that he/she wants to unfollow. 2. Click on “Đã theo dõi” button at the right of user’s name 3. The “Đã theo dõi” button is changed to “Theo dõi”. | | |
| Alternative Flow: | 1. User go to his/her personal page. 2. At the left side of page, click on “n – đang theo dõi” / “n – theo dõi” text. 3. A popup is displayed with list of users he/she has already followed 4. User click on “Hủy theo dõi” button 5. The user is removed from the list. | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.18 Block a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-026 Block a user** | | |
| Created by: | **PhongNV** | Date created: | **20/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to block a user | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | Block record has been added on database | | |
| Normal Flow: | 1. User visits the user’s personal page that he/she wants to block. 2. Click on button “…” on the bottom right of cover image. 3. Click on “Chặn người dùng” option. 4. System display a popup ask user whether or not he/she wants to continue. 5. User click on “Tiếp tục” button. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: |  | | |

*3.2.3.3.19 Unblock a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-027 Unblock a user** | | |
| Created by: | **PhongNV** | Date created: | **20/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to unblock a user that he/she has already blocked. | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | Block record has been deleted from database | | |
| Normal Flow: | 1. User visits the user’s personal page that he/she wants to unblock. 2. Click on button “…” on the bottom right of cover image. 3. Click on “Bor chặn người dùng” option. 4. System display a popup ask user whether or not he/she wants to continue. 5. User click on “Tiếp tục” button. | | |
| Alternative Flow: | 1. User go to his/her personal page 2. At the left side of the page, click on “Danh sách chặn” text. 3. A popup is displayed with a list of blocked users. 4. User click on “x” button at the top-right of the user he/she wants to unblock 5. The user is removed from the list | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.20 Report a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-028 Report a user** | | |
| Created by: | **PhongNV** | Date created: | **18/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow users to report a violated user. | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | Report record has been added on database | | |
| Normal Flow: | 1. At list of posts/users page or post detail page, click on “…” button at the right of user’s name. 2. System displays a list of options 3. User click on “Báo cáo vi phạm” options. 4. A popup is displayed with list of violated reasons. 5. User choose one or more reason, then click “Gửi” button. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.21 Join to a companion group.*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-29 Join to a companion group** | | |
| Created by: | **PhongNV** | Date created: | **26/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to join a group to discuss and plan for traveling together | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. User information has been added to the group on database 2. User can access to the group chat | | |
| Normal Flow: | 1. At the finding-companion-post detail page, user clicks on “Tham gia” button. 2. System displays a message notify that his/her request has been sent. 3. After the group’s admin accept his/her request, system will send a notification to the user to notify that he/she has joined to the group. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.22 Leave a compation group.*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-30 Leave a companion group** | | |
| Created by: | **PhongNV** | Date created: | **26/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to leave a group that he/she has joined. | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. User information has been removed from the group on database 2. User can’t access to the group chat any more. | | |
| Normal Flow: | 1. At the home page, User click on message icon. 2. A popup is displayed with a list of conversations, then user click on “Xem tất cả” link to redirect to chat pages 3. At the left side of the page, user select on the conversation that related to the group he/she wants to leave. 4. System displays a popup to confirm that if user really want to leave. 5. User click on “Tiếp tục” button. | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.23 Remove a joined companion*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-31 Remove a joined companion** | | |
| Created by: | **PhongNV** | Date created: | **26/06/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow group’s admin to remove a member in the group. | | |
| Preconditions: | 1. User has signed in to the website 2. User has created a companion group. | | |
| Post conditions: | 1. User information has been removed from the group on database 2. User item has been removed in the list of group members. | | |
| Normal Flow: | 1. At the home page, User click on message icon. 2. A popup is displayed with a list of conversations, then user click on “Xem tất cả” link to redirect to chat pages 3. User selects the group conversation he/she wants to remove a group member. 4. At the right side of page, user click on “Mọi người” button. 5. A list of group members is displayed, then user click on “…” button at the user item that he/she wants to remove 6. A popup with list of options is displayed, user click on “Xóa khỏi nhóm” button. 7. System displays a popup to confirm that if user really wants to remove that user. 8. User click “Tiếp tục” to continue | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

*3.2.3.3.24 Send/recieve a message.*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-32 Send/recieve a message** | | |
| Created by: | **PhongNV** | Date created: | **02/07/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to chat with other users | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | 1. Messages information has been added on database 2. The user he/she sends message to get a new message notification. | | |
| Normal Flow: | 1. At the homepage, user click on the message icon 2. A list of conversation is displayed 3. User click on the conversation he/she wants to chat 4. User enters message then press “Enter” button or click send button | | |
| Alternative Flow: | For the first time user send message to another user:   1. From the user’s personal page that he/she wants to send message, user click on “Gửi tin nhắn” button 2. A popup is displayed, then user enter message to the text area. 3. User click “Gửi” button | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.3.32 View recommended articles*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-33 View recommended articles** | | |
| Created by: | **PhongNV** | Date created: | **08/07/2019** |
| Primary Actor: | **Member** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | Allow user to see a list of posts which he/she may like. | | |
| Preconditions: | User has signed in to the website | | |
| Post conditions: | A list of articles is displayed for users base on their interests. | | |
| Normal Flow: | 1. At the home page, user can see a small list of recommended post 2. User click “Xem thêm” at the right side of the page to see more recommended post | | |
| Alternative Flow: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Low | | |
| Business Rules: | N/A | | |

**3.2.3.4 Administrator**

*3.2.3.4.1 View all users' account*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-034 View all users' account** | | |
| Created by: | **LinhLP** | Date created: | **15/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to view all users' account of the system | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | List of user account is displayed. | | |
| Normal Flow: | 1. At the admin-dashboard page, admin click on “Người dùng” tab at the left side of the page. 2. A list of user account is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.2 View reported accounts*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-035 View reported accounts** | | |
| Created by: | **LinhLP** | Date created: | **15/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to view reported accounts | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Reported accounts is displayed to admin | | |
| Normal Flow: | 1. Admin click on “Vi phạm” tab at the left side of the page. 2. An expansion options is displayed, then admin click on “Người dùng” tab 3. A list of reported users is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.3 Ban a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-036 Ban a user** | | |
| Created by: | **LinhLP** | Date created: | **12/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to ban a user | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | User’s is\_active property has been changed to false on database | | |
| Normal Flow: | 1. At the admin dashboard page, admin click on “Người dùng” tab. 2. A list of user is displayed 3. Admin click on option on top right of user item. 4. A list of options is displayed 5. Admin click “Đình chỉ” option 6. System displays a popup to confirm 7. Admin clicks “Tiếp tục” to continue. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.4 Unban a user*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-037 Unban a user** | | |
| Created by: | **LinhLP** | Date created: | **12/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to unban an user | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | User’s is\_active property has been changed to true on database | | |
| Normal Flow: | 1. At the admin dashboard page, admin click on “Người dùng” tab. 2. A list of user is displayed 3. Admin click on option on top right of user item who admin wants to unban. 4. A list of options is displayed 5. Admin click “Bỏ đình chỉ” option 6. System displays a popup to confirm 7. Admin clicks “Tiếp tục” to continue. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.5 View reported posts*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-038 View reported posts** | | |
| Created by: | **LinhLP** | Date created: | **15/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to view reported posts | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | A list of reported post is displayed | | |
| Normal Flow: | 1. Admin click on “Vi phạm” tab at the left side of the page. 2. An expansion options is displayed, then admin click on “Bài viết” tab 3. A list of reported posts is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.6 Remove a reported post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-039 Remove a reported post** | | |
| Created by: | **LinhLP** | Date created: | **15/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to remove a reported post | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Post’s is\_active property has been changed to false on database | | |
| Normal Flow: | 1. Admin click on “Vi phạm” tab at the left side of the page. 2. An expansion options is displayed, then admin click on “Bài viết” tab 3. A list of reported posts is displayed 4. Admin click on “…” button on the post item 5. A list of options is displayed, then admin click on “Gỡ bài viết”. 6. A popup is displayed to confirm 7. Admin click on “Tiếp tục” button. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.7 Restore a removed post*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-040 Restore a removed post** | | |
| Created by: | **LinhLP** | Date created: | **15/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to restore a post which admin has already removed. | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Post’s is\_active property has been changed to true on database | | |
| Normal Flow: | 1. Admin click on “Bài viết” tab at the left side of the page 2. A list of posts is displayed 3. Admin click on “…” button on the post item 4. A list of options is displayed, then admin click on “Khôi phục”. 5. A popup is displayed to confirm 6. Admin click on “Tiếp tục” button. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.8 View reported comments*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-041 View reported comments** | | |
| Created by: | **LinhLP** | Date created: | **18/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to restore a removed post | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | A list of reported comments is displayed | | |
| Normal Flow: | 1. Admin click on “Vi phạm” tab at the left side of the page. 2. An expansion options is displayed, then admin click on “Bình luận” tab 3. A list of reported comments is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.9 Remove a reported comment*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-042 Remove a reported comment** | | |
| Created by: | **LinhLP** | Date created: | **18/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to remove a reported comment. | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Comment’s is\_active property is changed to false. | | |
| Normal Flow: | 1. Admin click on “Vi phạm” tab at the left side of the page. 2. An expansion options is displayed, then admin click on “Bình luận” tab 3. A list of comments is displayed 4. Admin click on “…” button on the comment item 5. A list of options is displayed, then admin click on “Gỡ bình luận”. 6. A popup is displayed to confirm 7. Admin click on “Tiếp tục” button. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.10 Restore a removed comment*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-043 Restore a removed comment** | | |
| Created by: | **LinhLP** | Date created: | **18/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to restore a removed comment | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Comment’s is\_active property is changed to true. | | |
| Normal Flow: | 1. Admin click on “Bình luận” tab at the left side of the page 2. A list of comments is displayed 3. Admin click on “…” button on the comment item 4. A list of options is displayed, then admin click on “Khôi phục”. 5. A popup is displayed to confirm 6. Admin click on “Tiếp tục” button. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.11 Add a travel topic*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-044 Add a travel topic** | | |
| Created by: | **LinhLP** | Date created: | **05/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to add a travel topic | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | A travel topic is added on database | | |
| Normal Flow: | 1. At the admin dashboard page, admin click on “Chủ đề” tab at the left side of the page 2. A list of topic is displayed 3. Admin click “Thêm” button 4. System displays a popup form to add topic 5. Admin fill the form and click “OK” button | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.12 Edit a travel topic*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-045 Edit a travel topic** | | |
| Created by: | **LinhLP** | Date created: | **05/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to edit a travel topic | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Travel topic’s information is updated on database | | |
| Normal Flow: | 1. At the admin dashboard page, admin click on “Chủ đề” tab at the left side of the page 2. A list of topic is displayed 3. Admin choose one topic admin want to edit. 4. Admin click on “Sửa” button 5. System displays a popup form to edit topic information 6. Admin fill the form and click “OK” button | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.13 Delete a travel topic*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-046 Delete a travel topic** | | |
| Created by: | **LinhLP** | Date created: | **05/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to delete a travel topic | | |
| Preconditions: | Admin has successfully logged in the system | | |
| Post conditions: | Topic’s is\_active property is changed to false. | | |
| Normal Flow: | 1. At the admin dashboard page, admin click on “Chủ đề” tab at the left side of the page 2. A list of topic is displayed 3. Admin choose one or more topics admin wants to delete. 4. Admin click on “Xóa” button 5. System displays a popup form to edit topic information 6. Admin fill the form and click “OK” button | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

* + - * 1. *View statistic of users*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-047 View statistic of users** | | |
| Created by: | **ThaiHV** | Date created: | **12/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to view statistic of new registered user in day, month, year | | |
| Preconditions: | User has signed in as Administrator | | |
| Post conditions: | Chart of users’ statistic is displayed. | | |
| Normal Flow: | 1. User visits admin dashboard page. 2. User click on “Tổng quan” tab at the left side of the page 3. A chart of users statistic is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.4.15 View statistic of posts*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-056 View statistic of posts** | | |
| Created by: | **ThaiHV** | Date created: | **12/07/2019** |
| Primary Actor: | **Administrator** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow admin to view statistic of new post user in day, month, year | | |
| Preconditions: | User has signed in as Administrator | | |
| Post conditions: | Chart of posts’ statistic is displayed. | | |
| Normal Flow: | 1. User visits admin dashboard page. 2. User click on “Tổng quan” tab at the left side of the page 3. A chart of posts statistic is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

**3.2.3.5 User**

*3.2.3.5.1 Search posts*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-049 Search posts** | | |
| Created by: | **LinhLP** | Date created: | **05/07/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to search posts by location or by text | | |
| Preconditions: | N/A | | |
| Post conditions: | Posts related to search parameters is displayed | | |
| Normal Flow: | Search by location:   1. At the homepage, user type destination in search box “Bạn muốn đi đâu” 2. User chose destination from drop down list 3. A list of posts is displayed   Search by text:   1. User enter text parameter on the search box at the top-right of the page 2. A list of posts is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | Google Map API can’t return list of location while user typing in the search box. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

*3.2.3.5.2 Search a member*

*Use Case Specification*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-050** Search a member | | |
| Created by: | **LinhLP** | Date created: | **05/07/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to search a member | | |
| Preconditions: | N/A | | |
| Post conditions: | Member search result is displayed | | |
| Normal Flow: | 1. User type text parameter into search box top-right of screen and hit enter 2. Result is displayed 3. User click “Mọi người” tab 4. A list of member related to search name is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

3.2.3.5.3 View popular articlesUse Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-051 View popular articles** | | |
| Created by: | **TruongLX** | Date created: | **13/06/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view popular articles. | | |
| Preconditions: | Uservisit the website. | | |
| Post conditions: | A list of popular articles is displayed. | | |
| Normal Flow: | 1. User visit website. 2. User see some post on “phổ biến” section at home page. 3. Click “Xem thêm >” link on the top right of section. 4. System display popular articles. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

3.2.3.5.4 View recently postsUse Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-052 View recently posts** | | |
| Created by: | **TruongLX** | Date created: | **13/06/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view the newest post | | |
| Preconditions: | Guest visit the website. | | |
| Post conditions: | A list of newest posts is displayed. | | |
| Normal Flow: | 1. User visit website. 2. User see some post on “Mới nhất” section at home page. 3. Click “Xem thêm >” link on the top right of section. 4. System display popular posts. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

3.2.3.5.5 View a post detailUse Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-053 View a post detail** | | |
| Created by: | **TruongLX** | Date created: | **11/06/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view a post detail | | |
| Preconditions: | User has visited the website | | |
| Post conditions: | An post detail page is displayed | | |
| Normal Flow: | 1. User visit website. 2. From list-post page, user clicks on a post’s title or post’s cover image. 3. A post detail page displayed. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

3.2.3.5.6 View user’s profileUse Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-054** **View user’s profile** | | |
| Created by: | **TruongLX** | Date created: | **01/06/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view profile of other users. | | |
| Preconditions: | If user has signed in, user is not blocked by the user they want to see | | |
| Post conditions: | A profile page of member displayed. | | |
| Normal Flow: | 1. User visit website. 2. At the list of posts/users, or at the detail post page, user click on user’s name or avatar. 3. Browser redirects to user’s personal page. 4. User’s profile is displayed at the left side of the page | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

3.2.3.5.7 View user’s followings/followersUse Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-055** **View user’s followings/followers** | | |
| Created by: | **TruongLX** | Date created: | **20/06/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view other users’ followings/followers. | | |
| Preconditions: | If user has signed in, user is not blocked by the user they want to see | | |
| Post conditions: | A list of followings/followers is displayed. | | |
| Normal Flow: | 1. User visit user’s personal page. 2. User click on “n - đang theo dõi” or “n - theo dõi” link on the left side panel. 3. A list of followers/followings displayed. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |

3.2.3.5.8 View user’s created postsUse Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-056 View user’s created posts** | | |
| Created by: | **TruongLX** | Date created: | **20/06/2019** |
| Primary Actor: | **User** | Secondary Actor: |  |
| Trigger: | N/A | | |
| Description: | Allow user to view created posts of other users. | | |
| Preconditions: | If user has signed in, user is not blocked by the user they want to see | | |
| Post conditions: | A list of created posts is displayed. | | |
| Normal Flow: | 1. User visit user’s personal page. 2. User choose list post he/she wants to see 3. A list of posts is displayed | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**3.3 Non-Functional Requirements**

**3.3.1 Security**

* Token-Based Authentication, relies on a signed token that is sent to the server on each request.
* Because we use Token-Based Authentication, so all request must be made on the correct frontend website otherwise it will be rejected, which made Cross-Site Request Forgery (CSRF) is impossible.
* All query made to MongoDB must be escaped so no NoSQL Injection.
* Apply SSL encryption to restrict user access and prevent man-in-the-middle attacking.
* All passwords are encrypted by PBKDF2 algorithm with salt.
* The security matrix is as following table:

|  |  |  |  |
| --- | --- | --- | --- |
| Function | Guest | Member | Administrator |
| Sign up |  |  |  |
| Google sign in |  |  |  |
| Facebook sign in |  |  |  |
| Normal sign in |  |  |  |
| Forgot password |  |  |  |
| Sign out |  |  |  |
| Change password |  |  |  |
| Update profile |  |  |  |
| Choose interested topic |  |  |  |
| Update interested topic |  |  |  |
| Create a post |  |  |  |
| Edit a post |  |  |  |
| Delete a post |  |  |  |
| Like/Unlike a post |  |  |  |
| Share a post |  |  |  |
| Report a post |  |  |  |
| Bookmark a post |  |  |  |
| View all bookmarks |  |  |  |
| Remove a bookmark |  |  |  |
| Comment to a post |  |  |  |
| Edit a comment |  |  |  |
| Delete a comment |  |  |  |
| Like/Unlike a comment |  |  |  |
| Report a comment |  |  |  |
| Create a virtual trip |  |  |  |
| Edit a virtual trip |  |  |  |
| Delete a virtual trip |  |  |  |
| Follow a user |  |  |  |
| Unfollow a user |  |  |  |
| Block a user |  |  |  |
| Unblock a user |  |  |  |
| Report a user |  |  |  |
| Create a finding companions post |  |  |  |
| Edit a finding companions post |  |  |  |
| Delete a finding companions post |  |  |  |
| Join to a companion group |  |  |  |
| Leave a companion group |  |  |  |
| Remove a joined companion |  |  |  |
| Send/receive messages |  |  |  |
| View followers' posts |  |  |  |
| View recommended posts |  |  |  |
| View all users' account |  |  |  |
| View reported accounts |  |  |  |
| Ban a user |  |  |  |
| Unban a user |  |  |  |
| View reported posts |  |  |  |
| Remove a reported post |  |  |  |
| Restore a removed post |  |  |  |
| View reported comments |  |  |  |
| Remove a reported comment |  |  |  |
| Restore a removed comment |  |  |  |
| Add a travel topic |  |  |  |
| Edit a travel topic |  |  |  |
| Delete a travel topic |  |  |  |
| View statistic of users |  |  |  |
| View statistic of posts |  |  |  |
| Search post by travel destinations |  |  |  |
| Search a member |  |  |  |
| Search finding companion posts |  |  |  |
| View popular posts |  |  |  |
| View recently posts |  |  |  |
| View a post detail |  |  |  |
| View a virtual trip |  |  |  |
| View member's profile |  |  |  |
| View member's followings/followers |  |  |  |
| View member's created posts |  |  |  |
| View member's created virtual trips |  |  |  |
| View member's created finding companions’ posts |  |  |  |

**3.3.2 Maintainability & Extensibility**

* Microservices architecture for backend.
* Unit Tests and Integration Tests are written using Karma and NUnit.
* Using TSLint for a consistent coding convention.
* Maintainable source code and easy deployment since we follow a single coding convention & a highly maintainable architecture design.
* Object Oriented Programming paradigm is applied in order to ensure scalability & maintainability.

**3.3.3 Availability and Scalability**

* Google Cloud service for automatic horizontal scalability.
* Third-party services for convenient development:
* SendGrid for sending emails.
* Google storage for storing images.

**3.3.4 Performance**

* Web front-end is a Single Page Application with the goal of providing a more fluid user experience similar to a desktop application.
* Backend system uses background job for external requests, heavy processing requests such as:
* Sending email

**3.3.5 Usability**

* The interface should be elegant and simple.
* Alt attributes are provided for non-text elements, such as images and maps.
* Links, buttons and checkboxes are easily clickable, for example a user can select a checkbox by clicking the text, not just the checkbox.
* Search box is wide enough, so that users can see what they've typed.
* Search is available on every page, not just the homepage.
* Links are easily recognizable. They look clickable. Items that aren't links don't look clickable, for example underlining text is avoided.
* Important commands are displayed as buttons, not links. For example, "Đăng nhập" or "Đăng" is a button, not a link.

1. <http://vietnamtourism.gov.vn/index.php/items/13460> [↑](#footnote-ref-1)
2. <http://flcholiday.com/tin-tuc/xu-huong-du-lich-2018-kham-pha-va-tan-huong-cuoc-song-117.htm> [↑](#footnote-ref-2)
3. <http://www.younetmedia.com/insights/infographic-xu-huong-du-lich-cua-gioi-tre-qua-phan-tich-tren-social-media.html> [↑](#footnote-ref-3)
4. <https://www.topsinfosolutions.com/methodology/> [↑](#footnote-ref-4)