Trường Đại học Bách Khoa Hà Nội

Viện Công nghệ thông tin và truyền thông

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ĐỒ ÁN

**TỐT NGHIỆP ĐẠI HỌC**

NGÀNH CÔNG NGHỆ THÔNG TIN

**WEBSITE BÁN ĐỒNG HỒ ÁP DỤNG TRẢ LỜI TỰ ĐỘNG VÀ GỢI Ý THANG ĐIỂM ĐÁNH GIÁ**

Sinh viên thực hiện :**Nguyễn Anh Tuấn**

Lớp CNTT2.2-K59

Giáo viên hướng dẫn :**TS. Đào Thành Chung**

Hà Nội 5-2019

**PHIẾU GIAO NHIỆM VỤ ĐỒ ÁN TỐT NGHIỆP**

1. Thông tin về sinh viên

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Đồ án tốt nghiệp được thực hiện tại: Trường Đại học Bách Khoa Hà Nội

Thời gian làm ĐATN: Từ ngày 13/02/2019 đến 24/05/2019

2. Mục đích nội dung của ĐATN

Xây dựng Website bán đồng hồ áp dụng trả lời tự động và gợi ý thang điểm đánh giá.

3. Các nhiệm vụ cụ thể của ĐATN

Tìm hiểu các lý thuyết các kỹ thuật trả lời tự động và phân loại quan điểm hiện nay

Thiết kế và xây dựng mô hình mạng neural trả lời tự động và gợi ý thang điểm đánh giá

Phân tích - thiết kế và xây dựng website bán đồng hồ sau đó tích hợp mô hình trả lời tự động và gợi ý thang điểm vào web.

4. Lời cam đoan của sinh viên:

Tôi – *Nguyễn Anh Tuấn* - cam kết ĐATN là công trình nghiên cứu của bản thân tôi dưới sự hướng của *TS. Đào Thành Chung*

Các kết quả nêu trong ĐATN là trung thực, không phải là sao chép toàn văn của bất kỳ công trình nào khác.

|  |  |
| --- | --- |
|  | *Hà Nội, ngày 24 tháng 05 năm 2019*  Tác giả ĐATN  *Nguyễn Anh Tuấn* |

5. Xác nhận của giáo viên hướng dẫn về mức độ hoàn thành của ĐATN và cho phép bảo vệ:

|  |  |
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|  | *Hà Nội, ngày 24 tháng 05 năm 2019*  Giáo viên hướng dẫn  *TS. Đào Thành Chung* |

**TÓM TẮT NỘI DUNG ĐỒ ÁN TỐT NGHIỆP**

Trong đồ án “WEBSITE BÁN ĐỒNG HỒ ÁP DỤNG TRẢ LỜI TỰ ĐỘNG VÀ GỢI Ý THANG ĐIỂM ĐÁNH GIÁ” gồm có các nội dung chính sau:

Chương 1 - Giới thiệu

Nêu ra động lực việc chọn đề tài dự án , và những đóng góp của đồ án

Chương 2 - Cơ sở lý thuyết

Trình bày các vấn đề trả lời tự động, phân loại quan điểm người dùng và các hướng tiếp cận hiện nay

Đưa ra các cơ sở lý thuyết các công nghệ các mô hình áp dụng vào đồ án

Chương 3 - Giải pháp

Trình bày các giải pháp để thực hiện đồ án

Chương 4 - Đánh giá

Trình bày đánh giá về độ chính xác và kiểm thử hệ thống sau khi hoàn thành đồ án

Chương 5 - Kết luận

# LỜI CẢM ƠN

Đi qua những năm tháng Bách Khoa, ta mới biết thế nào là tuổi trẻ, là thanh xuân, là những tháng ngày dù có khó khăn nhưng vẫn luôn cố gắng gượng cười. Năm năm Bách Khoa, nó chẳng phải là dài so với cuộc đời của mỗi người, nhưng nó đủ để “Yêu” một thứ gì đó, đủ để khắc ghi trong tim ta những con người, những giảng đường và hơn cả là những kỉ niệm ngọt ngào chẳng thể nào phai.

Bách Khoa không chỉ cho ta những bài học vô giá, những bầu trời kiến thức vô tận, mà còn cho ta nếm trải những mùi vị thất bại cay đắng đầu đời mang tên “tạch môn” từ đó để ta biết cách vực dậy sau những vấp ngã. Bách Khoa – nơi nuôi dưỡng, rèn luyện, nơi dẫn ta từng bước chạm vào ước mơ. Bách Khoa cho ta những người Thầy luôn tận tâm, tận tình với sinh viên, và cho ta những người bạn mà chẳng có từ ngữ nào diễn tả hết được sự đáng quý của nó. Nói làm sao hết được tình cảm ta dành cho Bách Khoa, cho những con người nơi đây.

Những tháng ngày gắn bó với Bách Khoa đang ngày càng xa dần, em chẳng biết nói gì hơn là lời cảm ơn chân thành đến Bách Khoa. Lời cảm ơn đầu tiên, em xin dành đến các thầy cô, những người luôn thầm lặng tiếp bước cho chúng em, đưa chúng em đến những chân trời kiến thức mới, nâng chúng em chạm tới ước mơ. Dù cho có vấp ngã, dù cho có thất bại thì thầy cô vẫn luôn sát cánh ở bên, dìu dắt chúng em bước tiếp trên con đường học tập. Và đặc biệt nhất, em xin gửi lời cảm ơn sâu sắc đến thầy **TS. Đào Thành Chung**, người đã giúp đỡ em tận tình nhất, dẫu cho em có sai vẫn luôn nhẹ nhàng, ân cần chỉ bảo để em có thể hoàn thành đồ án một cách tốt nhất có thể.

Và lời cảm ơn tiếp theo con xin gửi tới bà và bố, mẹ đã làm hậu phương tinh thần vững chắc cho con trong suốt chặng đường con đã đi. Tiếp theo nữa em xin gửi lời cảm ơn tới các thầy cô Viện Công nghệ thông tin và Truyền thông đặc biệt hơn là các thầy cô trong bộ môn Hệ thống thông tin đã giúp em có những bài học , kiến thức vô cùng quý báu. Sau cùng là lời cảm ơn tới Liên Chi Đoàn Viện công nghệ thông tin và truyền thông ,tập thể lớp CNTT2-2 K59 , tập thể lớp BK2.22 K59 , Đội sinh viên tình nguyện K59, đã cho em những kỷ niệm đẹp không thể quên về tình bạn ,tình đồng chí, tình yêu thương suốt khoảng thời gian sinh viên.

Chúc tất cả mọi người luôn vui vẻ, hạnh phúc và thành công trong cuộc sống

Hà Nội, ngày 24 tháng 5 năm 2019

Sinh viên thực hiện

*Nguyễn Anh Tuấn*

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[**Hình 52:** Hình ảnh thử nghiệm hệ thống trả lời câu hỏi tự động (2) 86](#_Toc9805061)

# DANH MỤC CÁC TỪ VIẾT TẮT

|  |  |
| --- | --- |
| **THUẬT NGỮ** | **DIỄN GIẢI** |
| GUI | Graphical User Interface (Giao diện đồ họa người dùng) |
| HTML | Hypertext Markup Languge (Ngôn ngữ đánh dấu siêu văn bản) |
| MVC | Model View Controller (Mô hình lập trình) |
| CSS | Cascading Style Sheets |
| RNN | Recurrent Neural Network (Mạng neural hồi quy) |
| LSTM | Long-short term memory (Mạng cải tiến của RNN để giải quyết vấn đề nhớ các bước dài) |
| GRU | Gated Recurrent Units (Mạng hồi quy cải tiến) |
| CBOW | Continous Bag of Words (Mô hình chuyển từ sang Vector) |

# CHƯƠNG 1: GIỚI THIỆU

## Động lực của đồ án

Ngày nay, công nghệ thông tin ngày càng phát triển thì nhu cầu cuộc sống cũng như việc ứng dụng công nghệ thông tin vào công việc của con người được phát triển mạnh mẽ và ngày càng đa dạng hơn, đặc biệt vấn đề về thương mại điện tử. Nhiều công nghệ sử dụng mới được áp dụng hàng ngày, cũng như đưa phần mềm vào quản lý ngày càng trực quan và sinh động hơn với người sử dụng. Trong hoạt động kinh doanh so với việc kinh doanh truyền thống thì thương mại điện tử chi phí thấp hơn ,hiệu quả đạt cao hơn.

Đối với một số cửa hàng hay shop , việc quảng bá giới thiệu sản phẩm cụ thể ở đây là “đồng hồ” tới khách hàng là một yêu cầu cần thiết . Có rất nhiều cách quảng bá .Nhưng xây dựng một website bán hàng là cách theo em là hiệu quả nhất vì nó có thể quản lý được sản phẩm , các đơn hàng của khách hàng, các đánh giá , các bình luận của khách hàng….. Sau khi khảo sát trên các trang bán hàng đồng hồ trực tuyến, thì em thấy các dữ liệu về đánh giá sản phẩm, hay dữ liệu hỏi đáp về các sản phẩm đồng hồ còn khá hạn chế .Nếu chúng ta có thể thu thập được các dữ liệu này thì sẽ rất có lợi cho sự phát triển sau này của việc áp dụng công nghệ thông tin vào việc bán mặt hàng đồng hồ.

Các trang bán đồng hồ hiện nay thường có các đánh giá về sản phẩm được đánh chưa chính xác tất cả, có rất rất nhiều đánh giá đãng lẽ 5 sao nhưng lại chỉ đánh giá 1 sao ,2 sao. Hoặc có rất nhiều đánh giá không tốt nhưng lại được đánh 5 sao. Việc đánh giá không đúng sẽ ảnh hưởng tới độ tin cậy của người vào chất lượng của các đánh giá khi nhìn vào. Hơn nữa các kết quả đánh giá sao người dùng cho sản phẩm cũng khá là quan trọng cho doanh nghiệp vì có nó mới có thể tìm hiểu về tất cả những ưu, khuyết điểm và trải nghiệm thực của khách hàng. Phản hồi khách hàng cho doanh nghiệp một cái nhìn tổng thể về sản phẩm, dịch vụ đang làm việc tốt về sản phẩm, dịch vụ và những gì cần cải thiện để tạo ra trải nghiệm tốt hơn cho khách hàng..

Như vậy một hệ thống dự đoán thang điểm đánh giá khi người dùng gõ đánh giá và trả lại cho người dùng để người dùng có thể lấy đó làm cơ sở đánh giá sản phẩm một cách chính xác nhất là khá cần thiết và ý nghĩa. Ngoài ra các trang bán đồng hồ hiện nay chủ yếu trả lời hỏi đáp khách hàng và loại bỏ các đánh giá không liên quan qua người trực hệ thống. Với một trang bán hàng lớn thì cần khá nhiều nhân lực này nên việc tạo ra một hệ thống trả lời tự động,và lọc các đánh giá không liên quan là cần thiết để giảm bớt chi phí và nhân công.

Tất cả các lý do trên, em chọn đề tài là “WEBSITE BÁN ĐỒNG HỒ ÁP DỤNG TRẢ LỜI TỰ ĐỘNG VÀ GỢI Ý THANG ĐIỂM ĐÁNH GIÁ” với mong muốn trả lời tự động được các câu hỏi từ phía người dùng về sản phẩm, loại bỏ một số đánh giá không liên quan tới sản phẩm, và gợi ý thang điểm đánh giá sản phẩm giúp người dùng có cơ sở để có thể đưa ra thang điểm chính xác về chất lượng sản phẩm và dịch vụ nhằm đem tới sự trải nghiệm tốt nhất cho người dùng và cắt giảm chi phí vận hành trang web.

## Đóng góp của đồ án

Xây dựng được một Website bán đồng hồ để người dùng có thể truy cập, tìm kiếm ,xem thông số kỹ thuật của các loại đồng hồ, tham khảo giá, cũng như đặt hàng sản phẩm một cách hiểu quả và tiện lợi.

Tạo ra website bán đồng hồ thông minh với chức năng tự động trả lời hỏi đáp của khách hàng về sản phẩm ( trang web vẫn có đầy đủ các chức năng cơ bản của một website bán hàng hiện nay ) Việc này cải thiện tối đa tốc độ trả lời câu hỏi và giảm bớt nhân lực trong việc trả lời các hỏi đáp của khách hàng.

Website có chức năng tự động lọc tối đa các đánh giá không liên quan về sản phẩm và tự động dự đoán sao theo đánh giá được nhập từ người dùng, ( việc này giảm tối thiểu các trường hợp đánh nhầm sao hoặc gửi đánh giá nhưng không đánh sao của khách hàng, điểu này ảnh hưởng tới việc cải thiện chất lượng sản phẩm và dịch vụ ).

Xây dựng được bộ dữ liệu đánh giá của người dùng, bộ dữ liệu hỏi đáp về sản phẩm của người dùng, rất có lợi cho việc phát triển các trang web bán đồng hồ sau này.

## Hướng giải quyết

Đối với phần trang web, ta sẽ xây dựng bằng công nghệ ASP.NET MVC của Microsoft

Phần hệ thống thông minh sẽ được xây dựng trên kiến trúc của mạng Neural. Nó sẽ được xây dựng dưới dạng restful api nhờ thư viện flask để giao tiếp với trang web.

## Bố cục của đồ án

Nội dung của đồ án được trình bày theo các mục như sau :

* Chương I: Giới thiệu :
  + Động lực để làm đồ án
  + Đóng góp của đồ án
  + Hướng giải quyết
* Chương II : Cơ sở lý thuyết.
  + Bài toán trả lời tự động hiện nay
  + Bài toán phân loại quan điểm người dùng
  + ASP.Net MVC và các công cụ lập trình Web
  + Học máy và học sâu
* Chương III : Giải pháp
  + Phân tích yêu cầu phần mềm
  + Thiết kế hệ thống
  + Giải pháp học sâu
* Chương IV: Đánh giá
  + Phương pháp đánh giá
  + Xây dựng hệ thống
  + Kiểm thử hệ thống
  + Đánh giá độ chính xác
  + So sánh hệ thống bán đồng hồ khác.
* Chương V : Kết luận

# CHƯƠNG 2 CƠ SỞ LÝ THUYẾT

## Bài toàn trả lời tự động

Từ lâu bài toán trả lời tự động đã được các nhà nghiên cứu khoa học để ý tới bao gồm tất cả các trường đại học về khoa học và công nghệ, các viện nghiên cứu và các doanh nghiệp. Nó thực sự có ý nghĩa vô cùng quan trọng và thiết thực trong khoa học và thực tiễn. Đã có rất nhiều hội nghị thường niên, bài báo, công trình nghiên cứu khoa học về nó ở cả trong nước lẫn ngoài nước về xử lý ngôn ngữ tự nhiên, khai phá dữ liệu, xử lý dữ liệu lớn, tương tác người máy…

Dựa vào phân loại theo hướng tiếp cận thì với bài toán này, có hai hướng tiếp cận chính [1]:

* Dựa vào trích chọn thông tin (Retrieval-based): Các kỹ thuật này thường sử dụng một kho các câu trả lời đã định nghĩa trước kết hợp với một vài phương pháp trích chọn Heuristic để chọn ra một đáp án thích hợp nhất dự vào mẫu câu hỏi và ngữ cảnh tại thời điểm đó. Kỹ thuật heuristic được sử dụng có thể là đơn giản hoặc là phức tạp, với các heuristic đơn giản thì nó có thể là sự so khớp các biểu thức dựa vào các luật (rule-based) đã định nghĩa, hoặc phức tạp như việc kết hợp học máy (Machine Learning) để phân lớp các câu hỏi và đáp án trả lời. Tuy nhiên, đối với các hệ thống kiểu này thì không thể sinh ra văn bản mới. Chúng chỉ lấy từ những câu có sẵn trong kho dữ liệu định nghĩa.
* Dựa vào mô hình sinh (Generative-based): Với mô hình này, các câu trả lời không lấy các câu trả lời có sẵn mà chúng có khả năng tự sinh các cầu trả lời từ đầu. Các mô hình sinh thường dựa vào các kỹ thuật Machine Translation, nhưng thay vì dịch từ ngôn ngữ này sang một ngôn ngữ khác, thì nó chúng thể “dịch” từ một input (câu hỏi) sang một output (câu trả lời).

Đối với hệ thống trả lời tự động dựa theo trích chọn thông tin, vì các bộ câu trả lời đã được chuẩn bị sẵn nên sẽ tránh được các lỗi về chính tả, ngữ pháp. Nhược điểm của chúng là chỉ có thể trả lời được những câu đã được chuẩn bị trong bộ dữ liệu, chúng hoàn toàn không thể tự sinh ra được câu trả lời vì vậy nếu các mẫu câu input mà chưa được quan sát, không có trong bộ luật thì chúng không thể xử lý được. Ngoài ra, chúng cũng không thể nhớ được các thông tin về ngữ cảnh được đề cập trước đó.

Với hướng tiếp cận dựa theo mô hình sinh: chúng có thể nhớ được các đối tượng đã được nhắc đến trong quá khứ, tạo cảm giác nói chuyện tự nhiên hơn cho người dùng. Tuy nhiên, chúng cũng có những nhược điểm như khó huấn luyện, dễ bị mắc lỗi về ngữ pháp. Nhược điểm tiếp theo là chúng cần một lượng lớn dữ liệu để học.

## Bài toán phân loại quan điểm của người dùng

Hiện nay, có rất nhiều bài báo cũng như các công trình nghiên cứu về phân tích đánh giá quan điểm của người dùng vì đây cũng là một lĩnh vực khá quan trọng và hữu ích trong thực tiễn. Nhìn chung, có hai hướng tiếp cận chính đó là sử dụng các hiểu biết về từ vựng, ngữ nghĩa và hướng tiếp cận sử dụng các thuật toán học máy. Trong các thuật toán học máy lại chia ra thành nhiều nhánh nhỏ là học có giám sát và học không giám sát. Trong học có giám sát lại được chia làm nhiều loại khác. Ngoài ra, trong những năm gần đây bắt đầu nở rộ các ứng dụng thành công deep learning vào bài toán đánh giá quan điểm người dùng với kết quả rất tốt .

Một số thuật toán học máy có giám sát phổ biến thường được sử dụng trong giải quyết bài toán phân lớp quan điểm là: Naive Bayes, Maximum Entropy, Support Vector Machine… [2]. Các thuật toán này cho kết quả khá tốt về tính chính xác trong việc giải quyết bài toán phân lớp quan điểm người dùng.

Về cơ bản, các bộ phân lớp thường gồm các bước chính sau:

1. Tiền xử lý dữ liệu: Đây là bước khá quan trọng, trong này chúng ta cần làm sạch dữ liệu (data cleaning), và chuẩn hóa (data normalization) để làm đầu vào cho bước sau.
2. Trích trọn đặc trưng và rút gọn (mục đích làm giảm độ phức tạp).
3. Xây dựng mô hình học
4. Phân lớp
5. Hậu xử lý kết quả phân lớp

Mỗi thuật toán đều có ưu và nhược điểm của nó như trong bảng sau [2]:

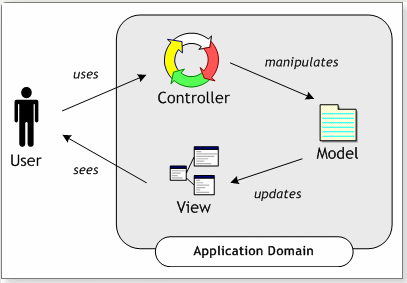
|  |  |  |
| --- | --- | --- |
|  | Ưu điểm | Nhược điểm |
| **Naive Bayes** | - Khá Đơn giản, dễ cài đặt, bộ phân lớp chạy khá nhanh và cần ít bộ nhớ lưu trữ. | - Thiếu chính xác do giả thiết độc lập của các vector đặc trưng khi đã biết phân lớp là không có thực trong thực tế. |
| **SVM ( Support Vector Machine)** | - Độ chính xác phân lớp cao, yêu cầu kích thước bộ dữ liệu huấn luyện nhỏ,khá dễ áp dụng cho nhiều bài toán.  - Hiệu quả với các bài toán phân lớp dữ liệu có số chiều lớn.  - Hiệu quả với các trường hợp số chiều dữ liệu lớn hơn số lượng mẫu. | - Thời gian huấn luyện lâu, không gian bộ nhớ sử dụng lớn, được thiết kế cho phân lớp nhị phân (trong khi thực tế chủ yếu là phân loại đa lớp).  - Có thể bị overfit trên dữ liệu huấn luyện, nhạy cảm với nhiễu |
| **Maximum Entropy** | - Có tính mềm dẻo cực cao, nó cung cấp một hệ thống các quy luật có tính thống kê ngẫu nhiên để bổ sung các cú pháp, ngữ nghĩa và căn cứ vào các vector đặc trưng. | - Chi phí tính toán khá lớn cho việc ước lượng các tham số của mô hình. |
| **Deep Learning** | - Có độ chính xác rất cao | - Đòi hỏi phải có bộ dữ liệu đủ tốt  - Tốn rất nhiều thời gian cho việc thử nghiệm mô hình để đưa ra mô hình phù hợp. |

##### Ưu nhược điểm của các hướng tiếp cận phân loại quan điểm người dùng

## ASP.NET MVC và các công cụ lập trình Web

### 2.3.1. ASP.NET MVC

#### 2.3.1.1. Sơ qua về mô hình MVC



###### Mô hình MVC

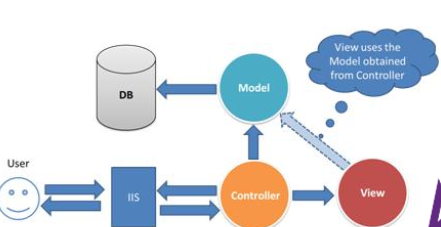
MVC (Model – View - Controller) là một design partern đã tồn tại rất lâu trong ngành công nghệ phần mềm. Một ứng dụng viết theo mô hình MVC sẽ bao gồm 3 thành phần tách biệt nhau đó là Model, View, Controller.

* Controller : Giữ nhiệm vụ nhận điều hướng các yêu cầu từ người dùng và gọi đúng những phương thức xử lý chúng… Chẳng hạn thành phần này sẽ nhận request từ url và form để thao tác trực tiếp với Model.
* Model : Đây là thành phần chứa tất cả các nghiệp vụ logic, phương thức xử lý, truy xuất database, đối tượng mô tả dữ liệu như các Class, hàm xử lý…
* View : Đảm nhận việc hiển thị thông tin, tương tác với người dùng, nơi chứa tất cả các đối tượng GUI như textbox, images… Hiểu một cách đơn giản, nó là tập hợp các form hoặc các file HTML.

#### 2.3.1.2. ASP.NET MVC

ASP.Net MVC là 1 framework lập trình web mới của microsoft, công nghệ này ứng dụng mô hình MVC vào trong ASP.Net.

ASP.Net MVC ra đời năm 2009 nhưng mà tính tới năm 2013 thì nó đã được update lên tới phiên bản ASP.Net MVC 5, đây cũng là 1 trong những ưu điểm của ông lớn Microsoft cập nhật công nghệ liên tục.



###### Cơ chế hoạt động của ASP.NET MVC

Dựa vào hình mô phỏng phía trên này thì mình sẽ khái quá sơ qua cơ chế hoạt động của ASP.Net MVC :

* User gửi 1 yêu cầu tới server bằng cách truyền vào 1 URL trong browser.
* Yêu cầu đó được gửi tới controller đầu tiên, controller sẽ xử lý yêu cầu, nếu yêu cầu cần truy xuất dữ liệu thì controller sẽ chuyển qua tầng model.
* Tại tầng model, dữ liệu được truy xuất từ database và sau đó truyền qua view thông qua controller.
* Controller sẽ giúp dữ liệu được chuyển từ model qua view.
* View là tầng cuối cùng giao tiếp với User, mọi dữ liệu sẽ được hiển thị cho User thông qua tầng View.

Những ưu điểm của ASP.NET MVC :

* Dễ dàng quản lý sự phức tạp của ứng dụng bằng cách chia ứng dụng thành ba thành phần model, view, controller
* Nó không sử dụng view state hoặc server-based form. Điều này tốt cho những lập trình viên muốn quản lý hết các khía cạnh của một ứng dụng.
* Nó sử dụng mẫu Front Controller, mẫu này giúp quản lý các requests (yêu cầu) chỉ thông qua một Controller. Nhờ đó bạn có thể thiết kế một hạ tầng quản lý định tuyến. Để có nhiều thông tin hơn, bạn nên xem phần Front Controller trên web site MSDN
* Hỗ trợ tốt hơn cho mô hình phát triển ứng dụng hướng kiểm thử
* Nó hỗ trợ tốt cho các ứng dụng được xây dựng bởi những đội có nhiều lập trình viên và thiết kế mà vẫn quản lý được tính năng của ứng dụng

### 2.3.2. Các công cụ khác.

Các công cụ hỗ trợ khác : HTML, CSS, Javascript, Jquery, Bootstrap để lập trình web.

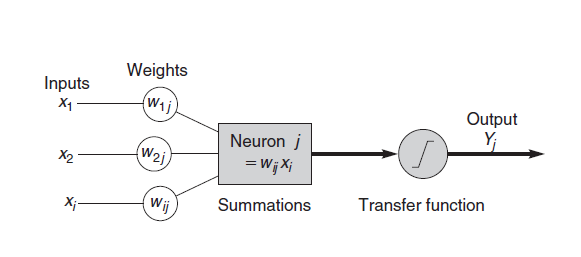
## Học máy và học sâu

### 2.4.1. Giới thiệu về mạng neural

#### 2.4.1.1. Định nghĩa

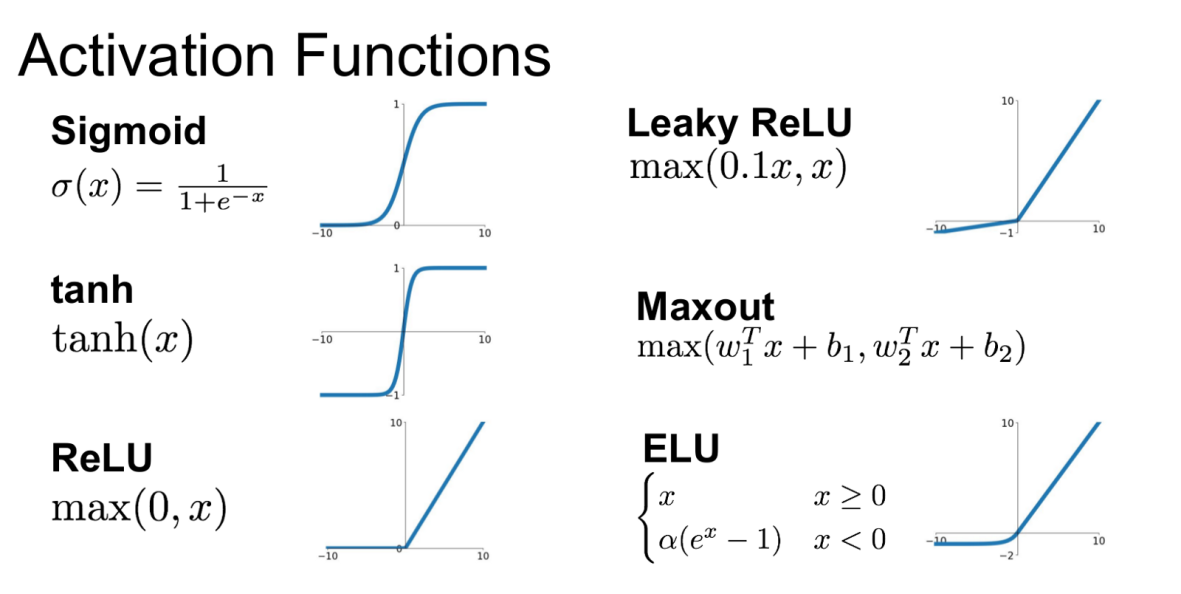
Mạng neural nhân tạo là một mô hình tính toán lấy cảm hứng từ các hệ thống neural sinh học. Nó gồm một nhóm các phần tử (neural) kết nối với nhau thông qua các liên kết. Nó xử lý thông tin bằng việc truyền theo các kết nối và tính giá trị đầu ra mới tại các nút. Một mạng nơron nhân tạo được cấu hình cho một ứng dụng cụ thể (nhận dạng vật thể, phân lớp dữ liệu) thông qua một quá trình học từ tập các mẫu huấn luyện. Bản chất của việc này chính là quá trình hiệu chỉnh trọng số liên kết giữa các nơron sao cho kết quả dự đoán của mạng và mẫu thực tế có sai số nhỏ nhất [3].

Mô hình mạng neural cơ bản:



###### Mô hình toán học tổng quát của mạng neural [4]

* + Đầu vào: đầu vào của mạng, thường là một vector N chiều.
  + Trọng số: Là các tham số được điều chỉnh xuyên suốt quá trình huấn luyện mạng. Thể hiện mức độ liên kết giữa tín hiệu vào thứ j và neural k, thường ký hiệu là wkj .
  + Hàm tổng: Dùng để tính tổng của các tích đầu vào với trọng số liên kết với nó.
  + Hàm kích hoạt: Được dùng để giới hạn phạm vi của đầu ra của mạng.



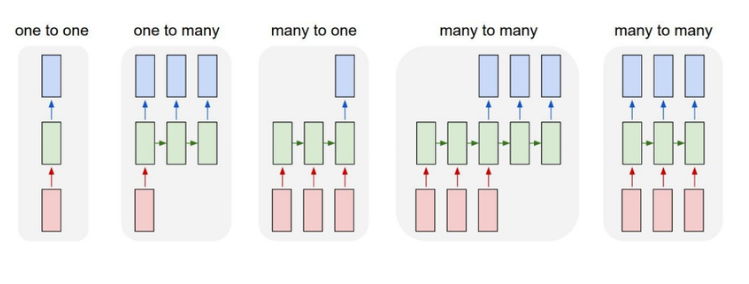
###### Một số hàm kích hoạt thông dụng [5]

Tín hiệu đầu vào sau khi qua mạng neural sẽ được tính toán và đầu ra của mạng sẽ được so sánh với đích mong muốn. Mạng sẽ liên tục cập nhật và điều chỉnh các trọng số đến khi đầu ra thỏa mãn yêu cầu.

### 2.4.2. Mạng neural hồi quy

#### 2.4.2.1. Giới thiệu

Mạng neural hồi quy là một mạng neural chứa một vòng lặp bên trong nó. Nó ra đời với ý tưởng chính là sử dụng một bộ nhớ để lưu lại thông tin từ từ những bước tính toán xử lý trước để dựa vào nó có thể đưa ra dự đoán chính xác nhất cho bước dự đoán hiện tại.



###### Các mô hình hoạt động của mạng RNN

Mạng neural hồi quy nhận một vector đầu vào x và đưa ra vector đầu ra y. Để có thể lưu trữ được thông của các sự kiện trong quá khứ, mạng neural hồi quy lưu trữ trong chính nó một vector trạng thái ẩn h. Vector trạng thái này sẽ lưu giữ những thông tin của những sự kiện đã được xử lý bằng cách cập nhật lại giá trị mỗi khi một sự kiện mới được xử lý.

#### 2.4.2.2. Biến thể của Mạng hồi quy

Nhược điểm của RNN: kiến trúc của nó không hề có cơ chế lọc những thông tin không cần thiết. Bộ nhớ của kiến trúc có hạn, nếu lưu tất cả những chi tiết không cần thiết thì sẽ dẫn đến quá tải, từ đó quên những thứ ở xa trong quá khứ. Vì vậy, các biến thể nâng cấp của mạng neural hồi quy đã ra đời để khắc phục vấn đề này: LSTM - Long Short Term Memory và GRU - Gated Recurrent Unit. Hai mạng này đã bổ sung thêm cơ chế loại bỏ những thông tin không cần thiết ra khỏi vector trạng thái ẩn h, từ đó đã khắc phục được một phần nhược điểm trên.

***LSTM*** : Long Short Term Memory về cơ bản cũng tương tự như RNN thuần, nhưng module của nó có kiến trúc phức tạp hơn.

Với LSTM, tại thời điểm t, mạng sẽ nhận một input *xt*. Mạng cũng có phần trạng thái tế bào (long-term) và phần bộ nhớ đang làm việc (working-memories, hay còn gọi là trạng thái ẩn) được truyền từ thời điểm t-1 trước đó, *ltmt-1* và *wmt-1*đều là vector n chiều. [6]

Tại bước đầu tiên, LSTM sẽ sử dụng input mới và working-memories để tạo ra một cổng quyết định xem bao nhiêu phần của long-term sẽ được dữ lại. Cổng này là được gọi là cổng quên với n thành phần có giá trị trong khoảng [0,1]:

*rmbt* = σ(*xtWr* + *Urwmt-1*)

Tiếp theo, LSTM sẽ tính toán các thông tin nó có thể học từ *xt*, phần sẽ được bổ sung vào long-term:

*ltm’t =* *Φ*(*xtWl* + *Ulwmt-1*)

Φ là hàm kích hoạt, thường là hàm tanh.

Trước khi thêm phần bổ sung, LSTM sẽ quyết định phần nào của nó thực sự hữu ích:

*savet* = σ(*xtWs* + *Uswmt-1*)

Bước tiếp theo LSTM sẽ cập nhập long-term cũ thành long-term mới. Chúng sẽ nhân long-term cũ với rmbt để bỏ đi những thông tin đã quyết định quên ở bước trên, sau đó cộng thêm *savet*°*ltm’t*:

*ltmt  = rmbt*° *ltmt-1 + savet*°*ltm’t*

Tiếp đến LSTM sẽ cập nhật working-memory, giá trị đầu ra sẽ phụ thuộc vào một phần của trạng thái tế bào. LSTM sẽ quyêt định phần nào của trạng thái tế bào sẽ được xuất ra đầu ra:

*focust* = σ(*xtWf* + *Ufwmt-1*)

Cuối cùng là cập nhật working-memory. LSTM đưa trạng thái tế bào qua một hàm tanh để co giá trị về [0,1] và nhân nó với *focust* để được giá trị đầu ra.

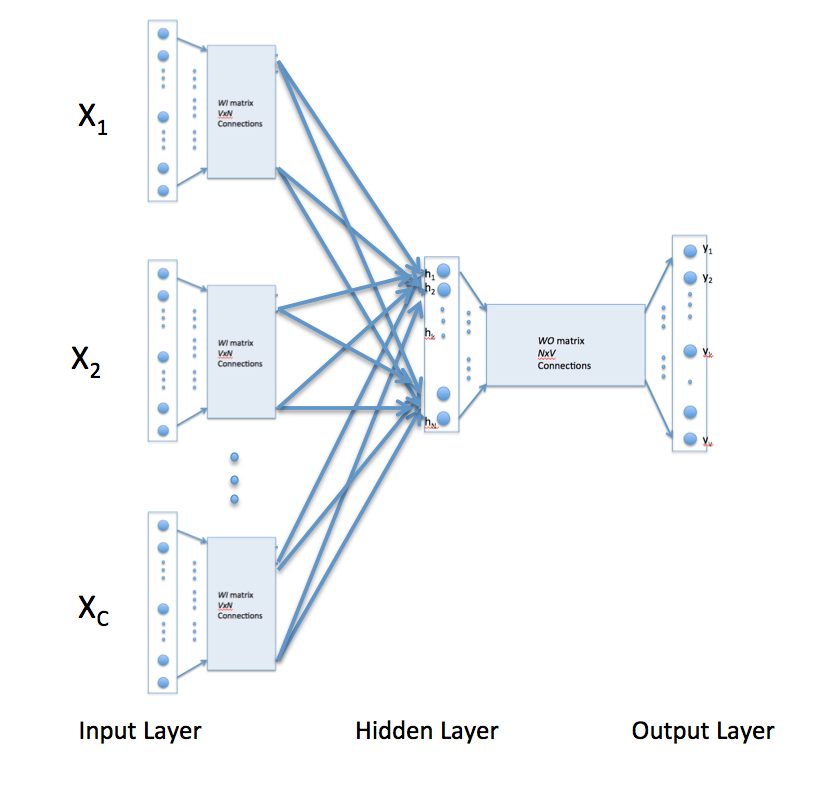
*wmt* = *focust*° *tanh*(*ltmt*)

### 2.4.3. Word embedding

Trong các bài toán về xử lý ngôn ngữ tự nhiên, dữ liệu đầu vào phần lớn ở dạng text. Vì vậy khi xử lý dữ liệu chúng ta phải chuyển chúng về dạng số (thường một vector n chiều). Trước đây người ta thường mã hóa theo dạng one-hot. Tuy nhiên nhược điểm của cách mã hóa này là chiều dài của vector từ rất lớn (bằng với số lượng từ trong từ điển) và rất thưa thớt (chỉ có 1 giá trị bằng 1, còn lại là bằng 0). Do đó, người ta đã nghĩ ra các phương pháp khác để chuyển một từ sang một vector n chiều, với n nhỏ hơn số lượng từ trong từ điển rất nhiều. Một trong nhũng phương pháp được ưa chuộng đó là word2vec.

Thay vì ánh xa các từ bằng số thứ tự của nó trong từ điểm, word2vec sẽ học để đoán từ lân cận của tất cả các từ. Word2vec có 2 kiến trúc khác nhau đó là: cho ngữ cảnh đoán từ hiện tại (CBOW) và cho từ hiện tại đoán ngữ cảnh (skip-gram).

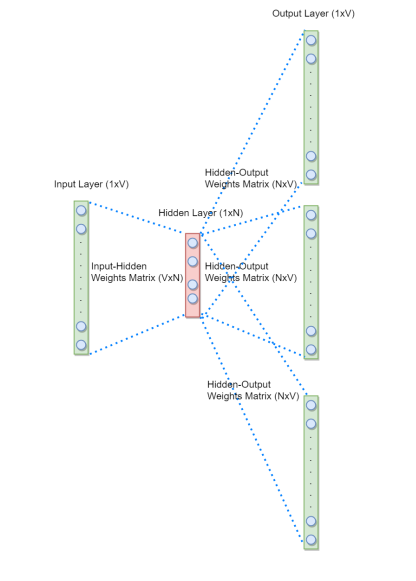
Đối với CBOW, nó sẽ nhận vào một hoặc nhiều one-hot vector của các từ ngữ cảnh và dự đoán xác suất của một từ đích ứng với các từ ngữ cảnh đó. Vector đầu vào có độ dài bằng với số lượng từ trong từ điển, vector output là một vector xác suất cũng với chiều dài V của từ liên quan hoặc còn thiếu, hidden layer có chiều dài N, N cũng chính là độ lớn của vector từ biểu thị. Mô hình CBOW được biểu diễn như sau:



###### Mô hình CBOW [7]

Về bộ dữ liệu dùng để train, input sẽ bao gồm các bộ one-hot vectors ngữ cảnh và các one-hot vectors của từ mong muốn.

Mô hình skip-gram có cấu trúc tương tự như CBOW, nhưng mục đích của nó là dự đoán ngữ cảnh của một từ đưa vào. Dưới đây là cấu trúc của mô hình skip-gram:



###### Mô hình Skip-gram [8]

Đầu vào của mô hình là một từ trong câu, đầu ra của mạng sẽ là xác suất của mỗi từ trong từ điển sẽ trở thành “từ gần nhất” so với từ đầu vào. Bộ dữ liệu dùng để training sẽ là các cặp từ xuất hiện ở gần nhau trong câu được mã hóa dưới mạng one-hot.

# CHƯƠNG 3 : GIẢI PHÁP

## 3.1. Phân tích yêu cầu

### 3.1.1. Tổng quan của hệ thống

Ảnh có chứa văn bản, bản đồ

Mô tả được tạo tự động

###### Usecase Tổng quan của hệ thống

Server chính là nơi nhận request để phân loại đánh giá, dự đoán thang điểm đánh giá , và đưa ra câu trả lời từ câu hỏi của người dùng.

Ảnh có chứa ảnh chụp màn hình, văn bản

Mô tả được tạo tự động

###### Usecase phân rã Tìm kiếm sản phẩm

Ảnh có chứa văn bản

Mô tả được tạo tự động

###### Usecase phân rã Thêm sản phẩm vào giỏ

Ảnh có chứa văn bản, ảnh chụp màn hình

Mô tả được tạo tự động

###### Usecase phân ra Danh sách đơn hàng

Ảnh có chứa văn bản, bản đồ

Mô tả được tạo tự động

###### Usecase phân rã Quản lý người dùng

Ảnh có chứa văn bản

Mô tả được tạo tự động

###### Usecase phân rã Quản lý đơn hàng

Ảnh có chứa văn bản

Mô tả được tạo tự động

###### Usecase phân rã Quản lý hỏi đáp

Ảnh có chứa văn bản, ảnh chụp màn hình

Mô tả được tạo tự động

###### Usecase phân rã Quản lý đánh giá

Ảnh có chứa văn bản, bản đồ

Mô tả được tạo tự động

###### Usecase phân rã Quản lý sản phẩm

### 3.1.2. Các đối tượng người dùng

1. Khách hàng:

Khách hàng được phép đăng ký tài khoản, thay đổi thông tin cá nhân của mình. Sau khi thực hiện đăng nhập tài khoản đã đăng ký , Khách hàng được phép thêm sản phẩm mình yêu thích vào giỏ hàng và có thể đặt hàng nó. Ngoài ra khách hàng có thể xem các đơn hàng mình đã đặt , hỏi đáp các về sản phẩm mà mình cần biết thêm thông tin, để lại đánh giá về sản phẩm mình đã mua.

1. Nhân viên:

Nhân viên được phép quản lý sản phẩm , quản lý các hỏi đáp, trả lời các thắc của người dùng về sản phẩm , quản lý đánh giá của sản phẩm.

1. Quản trị viên:

Quản trị viên là người cấu hình hệ thống , được phép sử dụng toàn quyền của hệ thống và thao tác toàn bộ các chức năng của hệ thống bao gồm quản lý: người dùng , phân quyền, bình luận , đánh giá , thông kê doanh thu.

### 3.1.3. Các yêu cầu chức năng

#### 3.1.3.1. Nhóm chức năng của Nhân viên:

Các chức của hệ thống dựa trên nền tảng Web

1. Quản lý Sản phẩm:

Nhân viên có thể thêm , sửa , xóa ,tìm kiếm , xem chi tiết sản phẩm đồng hồ.

Nhân viên có thể thêm , sửa , xóa , tìm kiếm các loại sản phẩm như đồng hồ Nam , đồng hồ nữ, đồng hồ đôi….

Nhân viên có thểm thêm, sửa, xóa, tìm kiếm các hãng sản xuất của sản phẩm ví dụ như Apple , Samsung, G-shock…

Nhân viên có thể thêm, sửa , xóa , tìm kiếm các chương trình khuyến mãi .

1. Quản lý hỏi đáp .

Nhân viên có thể xem ,trả lời hỏi đáp , xóa hỏi đáp của khách hàng. Thông tin của hỏi đáp gồm có nội dung , họ tên và email khách hàng.

1. Quản lý đánh giá.

Nhân viên có thể xem ,xóa một đánh giá của người dùng nếu nó là đánh giá khiếm nhã mà hệ thống lọc bỏ sót.

1. Quản lý đơn hàng của khách:

Nhân viên có thể thay đổi xem , tìm kiếm , thay đổi trạng thái của đơn hàng là đang giao , đã giao hoặc là hủy. Nhân viên sẽ không có quyền xóa đơn hàng mà chỉ có quản trị viên mới có quyền đó.

#### 3.1.3.2. Nhóm chức năng của người quản trị

1. Quản lý người dùng :

Người quản trị có thể phân quyền , xóa , xem chi tiết, tìm kiếm tài khoản người dùng. Thông tin bao gồm , Tên đăng nhập , số điện thoại , email , địa chỉ , họ và tên , ảnh đại diện .

1. Xem thống kê doanh thu

Người quản trị có thể xem thống kê doanh thu các đơn hàng

#### 3.1.3.3. Nhóm chức năng của khách hàng:

1. Quản lý thông tin cá nhân :

Người dùng có thể đăng ký tài khoản của hệ thống theo các thông tin form như : Tên đăng nhập, mật khẩu, họ tên, SĐT , email , địa chỉ .Sau khi đăng nhập thành công người dùng có thể chỉnh sửa thông tin hoặc mật khẩu.

1. Mua hàng :

Người dùng có thể thêm sản phẩm vào giỏ hàng , đặt hàng sản phẩm .

1. Quản lý đơn hàng của mình:

Người dùng có thể xem danh sách chi tiết đơn hàng mà mình đã đặt , hủy đơn hàng mình đã đặt nếu chỉ khi đơn hàng đó đang ở trong tình trạng đang duyệt.

#### 3.1.3.4. Nhóm chức năng nâng cao:

Hệ thống có khả năng loại bỏ bớt các đánh giá không liên quan tới đồng hồ.

Hệ thống tự động ước lượng được số sao đối với nội dung đánh giá của khách hàng một cách chính xác nhất có thể

Hệ thống tự động trả lời bình luận hỏi đáp của khách hàng một cách tốt nhất có thể.

### Các yêu cầu chức năng nâng cao

Khi người dùng gửi câu hỏi vào phần hỏi đáp , hệ thống phải trả lời tự động câu hỏi đó và hiển thị lại cho người dùng.

Khi người dùng nhập nội dung đánh giá ở phần đánh giá sản phẩm, hệ thống phải cập nhật sao và trả lại bên trên khung textarea đánh giá để người dùng lấy đó làm cơ sở đánh giá.

Khi gửi dùng gửi đánh giá nếu đánh giá đó quá không liên quan tới sản phẩm và dịch vụ thì loại bỏ đánh giá đó và thông báo tới người dùng đánh giá không hợp lệ.

### 3.1.5. Các yêu cầu phi chức năng

#### 3.1.5.1. Về hiệu năng:

* + - 1. Hệ thống xây dựng cần đảm bảo có hiệu năng ở mức chấp nhận được, đặc biệt là trong trường hợp khi số lượng người sử dụng ngày một tăng.
      2. Về mặt tốc độ xử lý, hệ thống cần đảm bảo có tốc độ nhanh, thời gian phản hồi yêu cầu ngắn, không gây ra sự khó chịu cho người sử dụng. Trong trường hợp có nhiều người cùng truy cập tại cùng một thời điểm, tốc độ của hệ thống vẫn đạt ở mức chấp nhận được.
      3. Về mặt độ trễ, yêu cầu hệ thống cần có độ trễ thấp.
      4. Về số lượng người dùng, yêu cầu hệ thống cần đáp ứng được số lượng người dùng lớn.

#### 3.1.5.2. Về tính bảo mật,an toàn và khả năng phục hồi:

* + - 1. Hệ thống cần phải đảm bảo yếu tố bảo mật tuyệt đối mọi thông tin của người sử dụng.
      2. Có cách thức truy nhập an toàn bằng mật khẩu. Kiểm soát người dùng và phân quyền chặt chẽ, chính xác. Cơ sở dữ liệu được sao lưu và lưu trữ phân tán nhằm phòng tránh các trường hợp bị sai hoặc mất dữ liệu.
      3. Trong các trường hợp bất ngờ hay các sự cố không mong muốn (ví dụ trong trường hợp mất điện, mất kết nối), yêu cầu hệ thống cần có các cơ chế bảo đảm an toàn cho dữ liệu, tránh sai sót thông tin, nhất là trong các giao dịch nạp thẻ hay thanh toán.
      4. Về khả năng phục hồi, hệ thống cần đảm bảo việc dễ phục hồi và sửa chữa dữ liệu nếu có sự cố xảy ra.
      5. Vì hệ thống được thao tác hoàn toàn trên môi trường web nên chắc chắn sẽ có rất nhiều vấn đề liên quan đến bảo mật hay sự cố do virus, quảng cáo,… Do vậy, các yếu tố liên quan đến bảo mật dữ liệu cần phải được coi trọng hơn bao giờ hết.

#### 3.1.5.3. Về tính bảo trì:

Các chức năng, giao diện đòi hỏi cần phải dễ bảo trì, sửa đổi, bổ sung.

#### 3.1.5.4 Về giao diện :

* Đối với người dùng, hệ thống cần có giao diện trực quan, thân thiện, dễ sử dụng, dễ thao tác.
* Đối với người quản trị hệ thống, giao diện cần trực quan, dễ sử dụng và quản lý.

### 3.1.6. Đặc tả chi tiết một số usecase của hệ thống

1. Đăng ký tài khoản:

##### Usecase Đăng ký

|  |  |
| --- | --- |
| Use Case ID: | UC01 |
| Use Case Name: | Đăng ký tài khoản |
| Tác nhân: | Người dùng chưa đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân đăng ký tài khoản mới. |
| Trigger: | Tác nhân lựa chọn chức năng đăng ký tài khoản. |
| Điều kiện tiên  quyết: | Tài khoản đăng ký là mới hoàn toàn. |
| Trạng thái sau thực hiện: | Nếu đăng ký thành công thì dữ liệu tài khoản đăng ký được lưu lại trong cơ sở dữ liệu, hệ thống tự động đăng nhập. Nếu thất bại thì sẽ không lưu tài khoản và thông báo đăng ký thất bại đến người dùng. |
| Luồng thông  thường: | 1, Người dùng chọn chức năng đăng ký tài khoản.  2, Hệ thống gửi trả cho người dùng một form đăng ký thông tin.  3, Người dùng nhập thông tin vào form và nhấn nút đăng ký để gửi yêu cầu đăng ký với các thông tin đó. (A)  4, Hệ thống kiểm tra thông tin điền vào đã phù hợp chưa, nếu đã thỏa mãn các điều kiện thì sẽ lưu lại trong cơ sở dữ liệu và tự động đăng nhập bằng tài khoản đó. Nếu không thỏa mãn thì sẽ gửi trả cho người dùng thông báo thất bại. |
| Luồng thay thế: | (A1) Hệ thống kiểm tra xem người dùng đã nhập đủ thông tin chưa  4, Nếu chưa thông báo lại cho người dùng  5, Người dùng nhập bổ sung thông tin và ấn đăng ký.  6, Hệ thống kiểm tra xem đã tồn tại tên tài khoản và email mà người dùng đã đăng ký chưa. Nếu có thì thông báo lại cho người dùng.  7, Nếu chưa có thì lưu thông tin tài khoản của người dùng vào cơ sở dữ liệu , login cho người dùng và đưa người dùng tới giao diện trang chủ người dùng |
| Ngoại lệ: | 1, Kết nối Internet gián đoạn.  2, Tác nhân hủy yêu cầu đăng ký tài khoản. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Đăng nhập hệ thống:

##### Usecase Đăng nhập

|  |  |
| --- | --- |
| Use Case ID: | UC02 |
| Use Case Name: | Đăng nhập |
| Tác nhân: | Người dùng chưa đăng nhập |
| Mô tả: | Use Case này cho phép người dùng đăng nhập vào hệ thống. |
| Trigger: | Tác nhân lựa chọn chức năng đăng nhập. |
| Điều kiện tiên  quyết: | Người dùng đã có tài khoản đăng nhập. |
| Trạng thái sau thực hiện: | Nếu đăng nhập thành công thì hệ thống sẽ hiển thị trang trang chủ . Nếu thất bại thì thông báo đăng nhập thất bại đến người dùng. |
| Luồng thông  thường: | 1, Người dùng chọn chức năng đăng nhập vào hệ thống.  2, Hệ thống gửi trả người dùng form đăng nhập.  3, Người dùng nhập username và password rồi nhấn nút đăng nhập.  4, Hệ thống tiến hành so khớp thông tin tài khoản đăng nhập với dữ liệu tài khoản trong cơ sở dữ liệu. Nếu có kết quả trùng thì hiển thị trang chủ của người dùng. Nếu không có kết quả nào trùng thì thông báo đăng nhập thất bại đến người dùng. |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | 1, Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Tìm kiếm sản phẩm:

##### Usecase Tìm kiếm sản phẩm

|  |  |
| --- | --- |
| Use Case ID: | UC03 |
| Use Case Name: | Tìm kiếm sản phẩm |
| Tác nhân: | Người dùng chưa đăng nhập/người dùng đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân tìm kiếm các sản phẩm trên hệ thống. |
| Trigger: | Người dùng nhập nội dung tìm kiếm vào ô textbox và nhấn nút tìm  kiếm. |
| Điều kiện tiên  quyết: | Người dùng truy cập vào trang chủ của hệ thống. |
| Trạng thái sau  thực hiện: | Nếu tồn tại (các) sản phẩm phù hợp với nội dung tìm kiếm của người dùng thì hệ thống sẽ hiển thị danh sách các sản phẩm cần tìm. Nếu sản phẩm được yêu cầu không tồn tại thì hiển thị danh sách trống. |
| Luồng thông  thường: | 1, Người dùng nhập nội dung tìm kiếm vào ô textbox  2, Hệ thống truy vấn cơ sở dữ liệu, so sánh nội dung tìm kiếm với dữ liệu sản phẩm đã có. Nếu tồn tại sản phẩm khớp với mô tả tìm kiếm thì hiển thị danh sách sản phẩm ở ngay bên dưới thanh textbox tìm kiếm cho người dùng. Nếu không tồn tại sản phẩm nào như vậy thì hiển thị danh sách trống.  3, Người dùng muốn lọc sản phẩm thì thực hiện nghiệp vụ “Lọc sản phẩm tìm kiếm ” UC04 |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | 1, Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Lọc sản phẩm tìm kiếm:

##### Usecase Lọc sản phẩm tìm kiếm

|  |  |
| --- | --- |
| Use Case ID: | UC04 |
| Use Case Name: | Lọc sản phẩm tìm kiếm |
| Tác nhân: | Người dùng chưa đăng nhập/người dùng đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân tìm kiếm và lọc các kết quả tìm kiếm các sản phẩm trên hệ thống. |
| Trigger: | Người dùng chọn các loại lọc và nhập các giá trị lọc ( nếu có ) và nhấn nút tìm kiếm. |
| Điều kiện tiên  quyết: | 1, Người dùng truy cập vào trang chủ của hệ thống.  2, Người dùng thao tác chức năng tìm kiếm sản phẩm. |
| Trạng thái sau  thực hiện: | Hệ thống hiện thị các sản phẩm thỏa mãn điều kiện lọc mà tác nhân đã chọn. |
| Luồng thông  thường: | 1, Người dùng chọn các kiểu lọc hoặc nhập giá trị cần lọc ( nếu có) và chọn Lọc sản phẩm.  2, Hệ thống truy vấn cơ sở dữ liệu, so sánh điều kiện lọc với dữ liệu sản phẩm đã có. Nếu tồn tại sản phẩm khớp với mô tả tìm kiếm thì hiển thị danh sách sản phẩm cho người dùng. Nếu không tồn tại sản phẩm nào như vậy thì hiển thị danh sách trống.  3, Người dùng có thể xem chi tiết sản phẩm. Thực hiện nghiệp vụ usecase “Xem chi tiết sản phẩm” |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | 1, Kết nối Internet gián đoạn. |
| Bao gồm: | Tìm kiếm sản phẩm. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Xem chi tiết sản phẩm:

##### Usecase Xem chi tiết sản phẩm

|  |  |
| --- | --- |
| Use Case ID: | UC05 |
| Use Case Name: | Xem chi tiết sản phẩm |
| Tác nhân: | Người dùng chưa đăng nhập/người dùng đăng nhập |
| Mô tả: | Use Case này cho phép người dùng xem được chi tiết về sản phẩm , thông số kỹ thuật. |
| Trigger: | Tác nhân chọn vào một sản phẩm trên danh sách sản phẩm |
| Điều kiện tiên  quyết: | Tác nhân truy cập vào trang chủ của hệ thống. |
| Trạng thái sau  thực hiện: | Hệ thống hiển thị chi tiết về sản phẩm mà tác nhân đã chọn. |
| Luồng thông  thường: | 1, Tác nhân chọn vào một sản phẩm trên danh sách sản phẩm  2, Hệ thống truy vấn cơ sở dữ , lấy ra thông các thông tin cần thiết về sản phẩm và hiển thị ra cho tác nhân. |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Thêm sản phẩm vào giỏ hàng:

##### Usecase Thêm sản phẩm vào giỏ hàng

|  |  |
| --- | --- |
| Use Case ID: | UC06 |
| Use Case Name: | Thêm sản phẩm vào giỏ hàng |
| Tác nhân: | Người dùng chưa đăng nhập/người dùng đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân thêm sản phẩm mình thích vào giỏ hàng. |
| Trigger: | Tác nhân nhấn Cho vào giỏ. |
| Điều kiện tiên  quyết: | Người dùng truy cập vào trang chủ của hệ thống. |
| Trạng thái sau  thực hiện: | Hệ thống thêm sản phẩm mà tác nhân đã cho vào giỏ hàng của tác nhân , và hiển thị số tiền và số sản phẩm ở giỏ hàng. |
| Luồng thông  thường: | 1, Tác nhân nhấn vào Cho vào giỏ.  2, Hệ thống sẽ cho sản phẩm mà tác nhân đã chọn vào giỏ hàng của tác nhân.  3, Hệ thống hiển thị thống báo thành công,  3, Hệ thống hiển thị số sản phẩm và số tiền trên giỏ hàng của người dùng. |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Xem giỏ hàng:

##### Usecase Xem danh sách giỏ hàng

|  |  |
| --- | --- |
| Use Case ID: | UC07 |
| Use Case Name: | Xem giỏ hàng |
| Tác nhân: | Người dùng đăng nhập / Người dùng chưa đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân xem danh sách các sản phẩm mình đã thêm vào giỏ. |
| Trigger: | Tác nhân nhấn giỏ hàng rồi nhấn “Xem” |
| Điều kiện tiên  quyết: | Người dùng truy cập vào trang chủ của hệ thống. |
| Trạng thái sau  thực hiện: | Hệ thống hiển thị danh sách các sản phẩm đã thêm vào giỏ cùng với số lượng sản phẩm và số tiền. |
| Luồng thông  thường: | 1, Tác nhân nhấn vào Giỏ hàng.  2, Tác nhân nhấn vào Xem.  3, Hệ thống hiện thị thông tin sản phẩm khách hàng đang có trong giỏ hàng tại giao diện Xem giỏ hàng  4, Tác nhân xem danh sách được hiển thị.  4.1. Tác có thể Xóa sản phẩm khỏi giỏ  4.2. Tác nhân có thể thay đổi số lượng sản phẩm trong giỏ  4.3, Tác nhân có thể đặt hàng |
| Luồng thay thế: | Không có |
| Ngoại lệ: | 1, Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Mua hàng:

##### Usecase Mua Hàng

|  |  |
| --- | --- |
| Use Case ID: | UC8 |
| Use Case Name: | Mua Hàng |
| Tác nhân: | Người dùng đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân đặt hàng trên trang web. |
| Trigger: | Tác nhân nhấn giỏ hàng rồi nhấn Đặt hàng |
| Điều kiện tiên  quyết: | 1, Người dùng đã đăng nhập thành công vào hệ thống.  2, Người dùng đã có sản phẩm trong giỏ |
| Trạng thái sau thực hiện: | Hệ thống thêm đơn hàng mà tác nhân đã mua và cơ sở dữ liệu, và xóa sản phẩm đã mua khỏi giỏ hàng. |
| Luồng thông  thường: | 1, Tác nhân nhấn vào Đặt Hàng.  2, Hệ thống hiện thị thông tin sản phẩm khách hàng đang có trong giỏ hàng, tổng tiền của đơn hàng, và form thông tin người mua cho người dùng điền.  3, Người dùng điền đầy đủ thông tin trên form. (1)  4, Người dùng nhấn “Mua hàng” ( 2 ).  5, Hệ thống kiểm tra thông tin mà người dùng nhập vào nếu thông tin người dùng nhập phù hợp thì hệ thống sẽ thêm đơn hàng của khác hàng vào cơ sở dữ liệu, và xóa các sản phẩm trong giỏ hàng của người dùng, đồng thời đưa người dùng tới danh sách đơn hàng. Nếu không phù thì hệ thống thông báo lại cho người dùng. |
| Luồng thay thế: | ( 1 ) : Hệ thống kiểm tra tính đầy đủ thông tin của người dùng đã nhập, nếu thiếu thì thông báo cho người dùng. Sau đó người dùng sẽ phải cập nhật  ( 2 ) : Hệ thống kiểm tra sản phẩm trong giỏ hàng của người dùng nếu không có thì thông báo người dùng không có sản phẩm nào trong giỏ. |
| Ngoại lệ: | 1, Kết nối Internet gián đoạn.  2, Tác nhân hủy Mua hàng. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Hỏi đáp về sản phẩm:

##### Usecase Hỏi đáp về sản phẩm

|  |  |
| --- | --- |
| Use Case ID: | UC09 |
| Use Case Name: | Hỏi đáp về sản phẩm |
| Tác nhân: | Người dùng chưa đăng nhập/người dùng đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân hỏi các thông tin về sản phẩm. |
| Trigger: | Tác nhân nhấn Hỏi đáp. |
| Điều kiện tiên  quyết: | 1, Người dùng truy cập vào trang chủ của hệ thống.  2, Người dùng đã vào Chi tiết sản phẩm |
| Trạng thái sau  thực hiện: | Hệ thống thêm câu hỏi mà tác nhân đã hỏi vào cơ sở dữ liệu hỏi đáp và hiển thị lại cho người dùng tab Hỏi đáp đã cập nhật. |
| Luồng thông  thường: | 1, Tác nhân nhấn vào Hỏi đáp.  2, Hệ thống sẽ hiện thị các hỏi đáp liên quan tới sản phẩm đó và form để người dùng có thể điền Hỏi đáp ( form sẽ Nội dung hỏi ,có Họ tên và Email nếu người dùng chưa đăn nhập còn nếu đăng nhập rồi sẽ hiển thị tên người dùng )  3, Người dùng nhập câu hỏi và thông tin Họ tên và Email nếu cần. rồi nhấn “Gửi”. (A1)  4, Hệ thống lưu câu hỏi của người dùng vào cơ sở dữ liệu hỏi đáp và đồng thời Hệ thống gửi request với nội dung câu hỏi lên Server và Server trả về response câu trả lời ứng với câu hỏi được nhận  5, Khi nhận được response câu trả lời từ Server . Hệ thống lưu lại câu trả lời ứng với câu hỏi đã gửi vào cơ sở dữ liệu hỏi đáp  6, Hệ thống hiển thị lại danh sách hỏi đáp có cả câu hỏi người dùng và câu trả lời tự động. |
| Luồng thay thế: | (A1).Nếu người dùng không nhập đủ thông tin.  4, Hiển thị thông báo thiếu thông tin tới người dùng  5, Người dùng nhập lại thông tin và ấn gửi  6, Hệ thống lưu câu hỏi của người dùng vào cơ sở dữ liệu hỏi đáp và đồng thời Hệ thống gửi request với nội dung câu hỏi lên Server và Server trả về response câu trả lời ứng với câu hỏi được nhận  7, Khi nhận được response câu trả lời từ Server . Hệ thống lưu lại câu trả lời ứng với câu hỏi đã gửi vào cơ sở dữ liệu hỏi đáp  8, Hệ thống hiển thị lại danh sách hỏi đáp có cả câu hỏi người dùng |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các trường hợp  giả định: | Không có. |

1. Đánh giá sản phẩm:

##### Usecase Đánh giá về sản phẩm

|  |  |
| --- | --- |
| Use Case ID: | UC10 |
| Use Case Name: | Đánh giá về sản phẩm |
| Tác nhân: | Người dùng chưa đăng nhập/người dùng đăng nhập |
| Mô tả: | Use Case này cho phép tác nhân đánh giá về sản phẩm mình đã mua. |
| Trigger: | Tác nhân nhấn Đánh giá. |
| Điều kiện tiên  quyết: | 1, Người dùng truy cập vào trang chủ của hệ thống.  2, Người dùng đã vào Chi tiết sản phẩm |
| Trạng thái sau  thực hiện: | Hệ thống thêm đánh của người dùng về sản phẩm vào cơ sở dữ liệu và hiển thị lại danh sách đánh giá tới người dùng. |
| Luồng thông  thường: | 1, Tác nhân nhấn vào Đánh giá.  2, Hệ thống sẽ hiện thị các đánh giá liên quan tới sản phẩm đó và sao và form để người dùng có thể điền Đánh giá ( form sẽ Nội dung đánh giá ,có Họ tên và Email nếu người dùng chưa đăn nhập còn nếu đăng nhập rồi sẽ hiển thị tên người dùng )  3, Người dùng nhập nội dung đánh giá đánh giá.  4, Trong quá trình người dùng nhập nội dung đánh giá gửi ajax lên hệ thống và hệ thống gửi request với các ký tự đang có ở trên textarea nội dung đánh giá lên Server để lấy kết quả đánh giá sao sau đó và gửi lại cho Tab đánh giá.  5, Tab đánh giá cập nhật sao ngay trên textarea nội dung .  6, Người dùng đánh giá lại sao nếu muốn .  7, Tác nhân nhấn “Gửi”.  8, Hệ thống gửi request tới Server để kiểm tra hợp lệ và đánh giá sao và Server trả về response (A1).  9, Hệ thống lưu kết quả đánh giá sao của Server cùng nội dung đánh giá của người dùng vào cơ sở dữ liệu đánh giá . Sau đó load lại tab đánh giá . |
| Luồng thay thế: | (A1) Nếu nội dung đánh giá người dùng gửi lên là không hợp lệ ( không liên quan hoặc chứa từ ngữ thô tục )  9, Server trả response đánh giá không hợp lệ .  10, Hệ thống thông báo nội dung không hợp lệ tới người dùng. |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các trường hợp  giả định: | Không có. |

1. Quản lý sản phẩm:

##### Usecase Quản lý sản phẩm

|  |  |
| --- | --- |
| Use Case ID: | UC11 |
| Use Case Name: | Quản lý sản phẩm |
| Tác nhân: | Nhân viên hoặc Quản trị viên |
| Mô tả: | Use Case này cho phép tác nhân quản lý các sản phẩm. |
| Trigger: | Tác nhân chọn chức năng Quản lý sản phẩm |
| Điều kiện tiên  quyết: | Người dùng truy cập vào trang quản trị của hệ thống với vai trò “Nhân viên” “Quản trị viên”. |
| Trạng thái sau  thực hiện: | Hệ thống hiển thị giao diện Quản lý sản phẩm ( có danh sách tất cả các sản phẩm và form thêm sản phẩm mới ). |
| Luồng thông  thường: | 1, Tác nhân nhấn chọn chức năng Quản lý sản phẩm.  2, Hệ thống hiển thị toàn bộ danh sách sản phẩm cùng với các trường của sản phẩm .  3, Tác nhân xem danh sách được hiển thị.  3.1. Nếu tác nhân muốn chỉnh sửa thông tin về sản phẩm thì thực hiện nghiệp vụ (extend) của usecase “Chỉnh sửa thông tin sản phẩm”.  3.2. Nếu tác nhân muốn xóa sản phẩm thì thực hiện nghiệp vụ (extend) của usecase “Xóa sản phẩm”.  3.3. Nếu tác nhân muốn thêm sản phẩm thì thực hiện nghiệp vụ (extend) của usecase “Thêm sản phẩm”.  3.4. Nếu tác nhân muốn tìm kiếm sản phẩm thì thực hiện nghiệp vụ (extend) của usecase “Tìm kiếm sản phẩm”  3.5. Nếu tác nhân muốn Quản lý loại sản phẩm thì thực hiện nghiệp vụ (extend) của usecase “Quản lý loại sản phẩm”  3.6. Nếu tác nhân muốn Quản lý hãng sản xuất thì thực hiện nghiệp vụ (extend) của usecase “Quản lý hãng sản xuất”  3.7. Nếu tác nhân muốn Quản lý khuyến mãi thì thực hiện nghiệp vụ (extend) của usecase “Quản lý chương trình khuyến mãi” |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Quản lý đơn hàng:

##### Usecase Quản lý đơn hàng

|  |  |
| --- | --- |
| Use Case ID: | UC12 |
| Use Case Name: | Quản lý đơn hàng |
| Tác nhân: | Nhân viên ,Quản trị viên |
| Mô tả: | Use Case này cho phép tác nhân quản lý các đơn hàng của khách hàng. |
| Trigger: | Tác nhân chọn chức năng Đơn hàng của khách |
| Điều kiện tiên  quyết: | Người dùng truy cập vào trang quản trị của hệ thống với vai trò “Quản trị viên” hoặc “Nhân viên” |
| Trạng thái sau  thực hiện: | Hệ thống hiển thị giao diện Quản lý đơn hàng |
| Luồng thông  thường: | 1, Tác nhân nhấn chọn chức năng Đơn hàng của khách.  2, Hệ thống hiển thị giao diện Quản lý đơn hàng với toàn bộ danh sách đơn hàng.  3, Tác nhân xem danh sách được hiển thị.  3.1. Nếu tác nhân muốn thay đổi trạng thái của đơn hàng thì thực hiện nghiệp vụ (extend) của usecase “Thay đổi trạng thái đơn hàng”  3.2. Nếu tác nhân muốn tìm kiếm đơn hàng thì thực hiện nghiệp vụ (extend) của usecase “Tìm kiếm đơn hàng”  3.3. Nếu tác nhân muốn Xem chi tiết đơn hàng thì thực hiện nghiệp vụ (extend) của usecase “Xem chi tiết đơn hàng”  3.4. Nếu tác nhân muốn xóa đơn hàng thì thực hiện nghiệp vụ (extend) của usecase “Xóa đơn hàng” |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

1. Quản lý người dùng:

##### Usecase Quản lý người dùng

|  |  |
| --- | --- |
| Use Case ID: | UC53 |
| Use Case Name: | Quản lý người dùng |
| Tác nhân: | Quản trị viên |
| Mô tả: | Use Case này cho phép tác nhân quản lý các tài khoản người dùng. |
| Trigger: | Tác nhân chọn chức năng Quản lý người dùng |
| Điều kiện tiên  quyết: | Người dùng truy cập vào trang quản trị của hệ thống với vai trò “Quản trị viên”. |
| Trạng thái sau  thực hiện: | Hệ thống hiển thị giao diện Quản lý người dùng ( có danh sách các người dùng hiện tại ). |
| Luồng thông  thường: | 1, Tác nhân nhấn chọn chức năng Quản lý người dùng.  2, Hệ thống hiển thị toàn bộ danh sách người dùng cùng với các trường của người dùng.  3, Tác nhân xem danh sách được hiển thị.  3.2. Nếu tác nhân muốn xóa sản phẩm thì thực hiện nghiệp vụ (extend) của usecase “Xóa người dùng”  3.3. Nếu tác nhân muốn phân quyền người dùng thì thực hiện nghiệp vụ (extend) của usecase “Phân quyền người dùng”  3.4. Nếu tác nhân muốn tìm kiếm người dùng thì thực hiện nghiệp vụ (extend) của usecase “Tìm kiếm người dùng” |
| Luồng thay thế: | Không có. |
| Ngoại lệ: | Kết nối Internet gián đoạn. |
| Bao gồm: | Không có. |
| Tần suất sử dụng: | Thường xuyên. |
| Quy tắc nghiệp vụ: | Không có. |
| Yêu cầu đặc biệt: | Không có. |
| Ghi chú: | Không có. |
| Các giả định khác: | Không có. |

## 3.2. Thiết kế hệ thống

### 3.2.1. Mô tả tổng quan



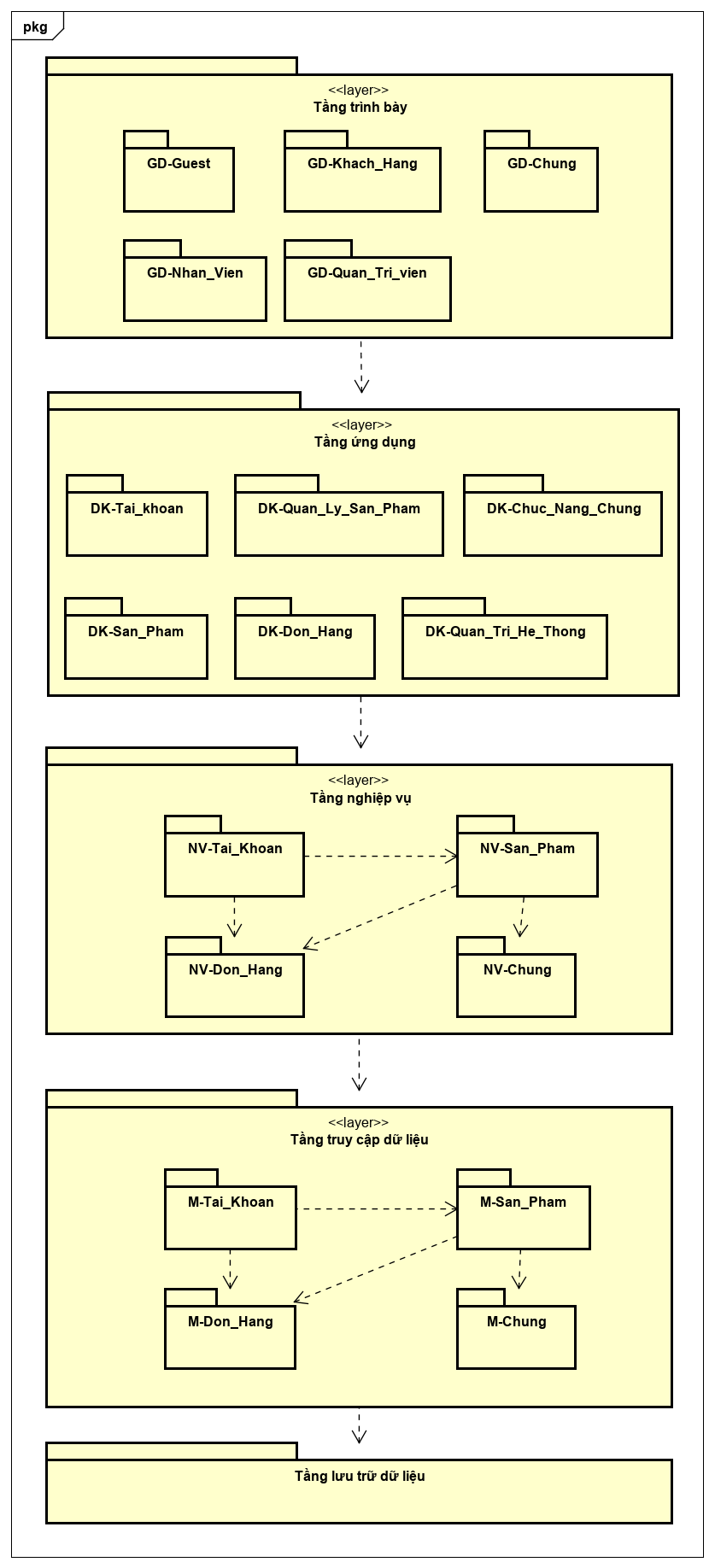
###### Biểu đồ kiến trúc các nút của hệ thống

Flask Server ( Server ) có nhiệm vụ phân loại đánh giá, dự đoán thang điểm đánh giá, và trả lời câu hỏi của người dùng.

Sau khi thiết kế và triển khai xong mô hình mạng cho trả lời tự động, phân loại và phân thang điểm đánh giá. Ta sẽ triển khai nó như một Server (sử dụng flask). Khi người dùng nhập form đánh giá Web Browser sẽ lắng nghe sự thay đổi phần nội dung đánh giá của người dùng và gửi ajax tới server sau khi nhận được ajax có data là nội dung đánh giá, server xử lý nội dung và đưa ra số sao sau khi xử lý và đưa ra được số sao Server gửi lại trang Web Browser và Web Brower sẽ hiển thị gợi ý sao cho người dùng tương ứng với điểm ( 1 2 3 4 5 tương ứng với số sao).

Khi người dùng gửi nội dung câu hỏi phần Hỏi đáp lên Web Browser nó sẽ gửi tới Web Server , Web Server sẽ gửi nó tới Server, Server xử lý và trả lại câu trả lời cho Web Server. Web Server lưu câu trả lời vào cơ sở dữ liệu và gửi lại câu trả lời tới Web Browser

### 3.2.2. Phân ra hệ thống thành các hệ thống con:



###### Kiến trúc phân tầng hệ thống

- Mô tả :

* *Tầng trình bày :*  Bao gồm các gói chứa các lớp giao diện. Có chức năng chuyển các dữ liệu cho người dùng và biến đổi các hành động của người dùng thành các sự kiện vào của hệ thống. Ta có mô tả chi tiết tầng trình bày như hình dưới:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Tầng trình bày

* *Tầng ứng dụng :*  Bao gồm các gói chứa các đối tượng điều khiển và dẫn dắt các quy luật của ứng dụng. Ta có mô tả chi tiết tầng ứng dụng như hình dưới:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Tầng ứng dụng

* *Tầng nghiệp vụ :* Bao gồm các gói chứa các đối tượng nghiệp vụ cùng sự cài đặt các quy tắc quản lý chúng. Mô tả chi tiết tầng nghiệp vụ:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Tầng nghiệp vụ

* *Tầng truy cập dữ liệu:*  Quản lý việc truy cập các đối tượng nghiệp vụ từ các phương tiện lưu trữ dữ liệu. Ta có mô tả chi tiết tầng truy cập dữ liệu như sau:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Tầng truy cập dữ liệu

* *Tầng lưu trữ dự liệu:* Bảo đảm sự lưu trữ lâu dài các dữ liệu. Điển hình là các hệ quản trị cơ sở dữ liệu như: SQL Server.

### 3.3.3. Thiết kế cơ sở dữ liệu:

#### AspNetUser : Bảng Người dùng.

##### Bảng cơ sở dữ liệu Người dùng.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| Id | nvarchar | 128 | ID Người dùng |
| Email | nvarchar | 256 | Email người dùng |
| UserName | nvarchar | 256 | Tên đăng nhập |
| Password | nvarchar |  | Mật khẩu người dùng |
| PhoneNumber | nvarchar |  | Số điện thoại |
| HoTen | datetime | 50 | Họ tên người dùng |
| NgaySinh | date |  | Ngày sinh |
| GioiTinh | bit |  | Giới tính |
| DiaChi | nvarchar | 256 | Địa chỉ người dùng |
| Avatar | Text |  | Link ảnh Avatar người dùng |
| RoleId | nvarchar | 128 | Chức vụ |

#### SanPham : Bảng Sản phẩm

##### Bảng cơ sở dữ liệu Sản phẩm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaSP | nvarchar | 5 | Mã sản phẩm |
| TenSP | nvarchar | 200 | Tên sản phẩm |
| LoaiSP | nvarchar | 256 | Loại sản phẩm |
| SoLuotXem | int |  | Số lượt xem của sản phẩm |
| HangSX | nvarchar | 5 | Hãng sản xuất |
| XuatXu | nvarchar | 50 | Xuất xứ của sản phẩm |
| GiaGoc | decimal |  | Giá gốc của sản phẩm |
| GiaTien | decimal |  | Giá bán sản phẩm |
| MoTa | ntext |  | Mô tả về sản phẩm |
| AnhDaiDien | ntext |  | Ảnh đại diện của sản phẩm |
| AnhNen | ntext |  | Ảnh nền của sản phẩm |
| AnhKhac | ntext |  | Ảnh khác của sản phẩm |
| SoLuong | int |  | Số lượng của sản phẩm |
| isnew | bit |  | Là mới nhập hay không |
| ishot | bit |  | Là hot hay không |
| GioiThieu | ntext |  | Giới thiệu của sản phẩm |
| ThongSoKyThuat | ntext |  | Thông số kỹ thuật của sản phẩm |

#### LoaiSP : Bảng Loại sản phẩm

##### Bảng cơ sở dữ liệu Loại sản phẩm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaLoai | nvarchar | 5 | Mã loại sản phẩm |
| TenLoai | nvarchar | 50 | Tên loại sản phẩm |

#### HangSanXuat : Bảng Hãng sản xuất

##### Bảng cơ sở dữ liệu Hãng sản xuất

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| HangSX | nvarchar | 5 | Mã hãng sản xuất |
| TenHang | nvarchar | 50 | Tên hãng sản xuất |
| TruSoChinh | nvarchar | 200 | Trụ sở chính của hãng |
| QuocGia | nvarchar | 50 | Quốc gia |

#### KhuyenMai : Bảng Chương trình khuyến mãi

##### Bảng cơ sở dữ liệu Hãng sản xuất

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaKM | nvarchar | 5 | Mã chương trình khuyễn mãi |
| NoiDung | ntext |  | Nội dung chương trình khuyến mãi |
| TenCT | nvarchar | 128 | Tên chương trình khuyến mãi |
| AnhCT | text |  | Ảnh của chương trình |
| NgayBatDau | Date |  | Ngày bắt đầu chương trình |
| NgayKetThuc | Date |  | Ngày kết thúc chương trình |

#### HangSanXuat : Bảng Sản phẩm khuyến mãi

##### Bảng cơ sở dữ liệu Sản phẩm khuyến mãi

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaKM | nvarchar | 5 | Mã chương trình khuyến mãi |
| MaSP | nvarchar | 5 | Mã sản phẩm |
| MoTa | ntext |  | Mô tả |
| GiamGia | Int |  | Phần trăm giảm giá |

#### DonHangKH : Bảng Đơn hàng khách hàng

##### Bảng cơ sở dữ liệu Đơn hàng khách hàng

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaDH | nvarchar | 5 | Mã đơn hàng |
| MaKH | nvarchar | 5 | Mã khách hàng |
| PhiVanChuyen | Decimal | 200 | Phí vận chuyển |
| NgayDatMua | Datetime |  | Ngày đặt mua |
| TinhTrangDH | Int |  | Tình trạng đơn hàng |
| Tongtien | Float |  | Tổng tiền đơn hàng |
| GhiChu | Text |  | Ghi chú |
| Diachi | Nvarchar |  | Địa chỉ |
| DienThoai | Nchar | 15 | Số điện thoại |

#### ChiTietDonHang : Bảng Chi tiết đơn hàng

##### Bảng cơ sở dữ liệu Chi tiết đơn hàng

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaDH | nvarchar | 5 | Mã đơn hàng |
| MaSP | nvarchar | 5 | Mã sản phẩm |
| Số lượng | Int |  | Số lượng sản phẩm |
| ThanhTien | Decimal |  | Thành tiền |

#### DanhGiaSP : Bảng Đánh giá sản phẩm

##### Bảng cơ sở dữ liệu Đánh giá sản phẩm

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaDG | Int |  | Mã đánh giá |
| MaSP | nvarchar | 5 | Mã sản phẩm |
| Rate | Int |  | Số sao đánh giá |
| MaKH | Nvarchar | 128 | Mã khách hàng |
| NoiDung | Ntext |  | Nội dung đánh giá |
| NgayDang | Datetime |  | Ngày đăng đánh giá |
| HoTen | nvarchar | 50 | Người đăng |
| Email | Nvarchar | 128 | Email người đăng |

#### BinhLuan : Bảng Hỏi đáp

##### Bảng cơ sở dữ liệu Hỏi đáp

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| MaBL | Int |  | Mã bình luận |
| MaSP | nvarchar | 5 | Mã sản phẩm |
| MaKH | Nvarchar | 128 | Mã khách hàng |
| NoiDung | Ntext |  | Nội dung đánh giá |
| NgayDang | Datetime |  | Ngày đăng đánh giá |
| HoTen | nvarchar | 50 | Người đăng |
| Email | Nvarchar | 128 | Email người đăng |
| DaTraLoi | Char | 1 | Đã trả lời chưa |
| Parent | Int |  | Mã cha của hỏi đáp |

#### AspNetRole : Bảng Chức vụ

##### Bảng cơ sở dữ liệu Chức vụ

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Data Type** | **Size** | **Description** |
| Id | Nvarchar | 128 | Mã chức vụ |
| RoleName | nvarchar | 256 | Tên chức vụ |

### 3.3.4. Mô hình hóa hành vi – Biểu đồ trình tự :

* Mục đích của mô hình hóa tương tác là dùng các biểu đồ tương tác để diễn tả sự tương tác giữa các đối tượng, nhằm tạo ra các kịch bản của mỗi ca sử dụng của hệ thống.
* Biểu đồ trình tự: nhằm diễn tả sự tương tác (chuyển giao thông điệp) giữa các đối tượng.

#### Đăng ký tài khoản:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Biểu đồ trình tự - Đăng ký tài khoản

#### Đăng nhập:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Biểu đồ trình tự - Đăng nhập

#### Tìm kiếm sản phẩm:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Biểu đồ trình tự - Tìm kiếm sản phẩm

#### Lọc sản phẩm tìm kiếm:

Ảnh có chứa bản đồ

Mô tả được tạo tự động

###### Biểu đồ trình tự - Lọc sản phẩm tìm kiếm

#### Mua hàng:

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Biểu đồ trình tự - Mua hàng

#### Hỏi đáp về sản phẩm:

Ảnh có chứa bản đồ

Mô tả được tạo tự động

###### Biểu đồ trình tự - Hỏi đáp về sản phẩm

#### Đánh giá về sản phẩm:

Ảnh có chứa bản đồ, văn bản

Mô tả được tạo tự động

###### Biểu đồ trình tự - Đánh giá về sản phẩm

### 3.3.5 Thiết kế Giao diện:

#### 3.3.5.1. Giao diện người sử dụng :

#### Template chung :

- Template chung được sử dụng chung cho các trang của người dùng sử dụng ( khách hàng , người dùng chưa đăng nhập ) các giao diện khác trong mục giao diện người sử dụng sẽ được render ra phần “RenderBody Trang”

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Giao diện Template chung

- Với giao diện Khách hàng đã đăng nhập thị thanh tab trên cùng sẽ như này :



- Với giao diện người dùng là Quản trị viên hoặc Nhân viên đã đăng nhập thị thanh tab trên cùng sẽ như này :



#### Giao diện Trang chủ :

Ảnh có chứa văn bản, bản đồ

Mô tả được tạo tự động

###### Giao diện Trang chủ

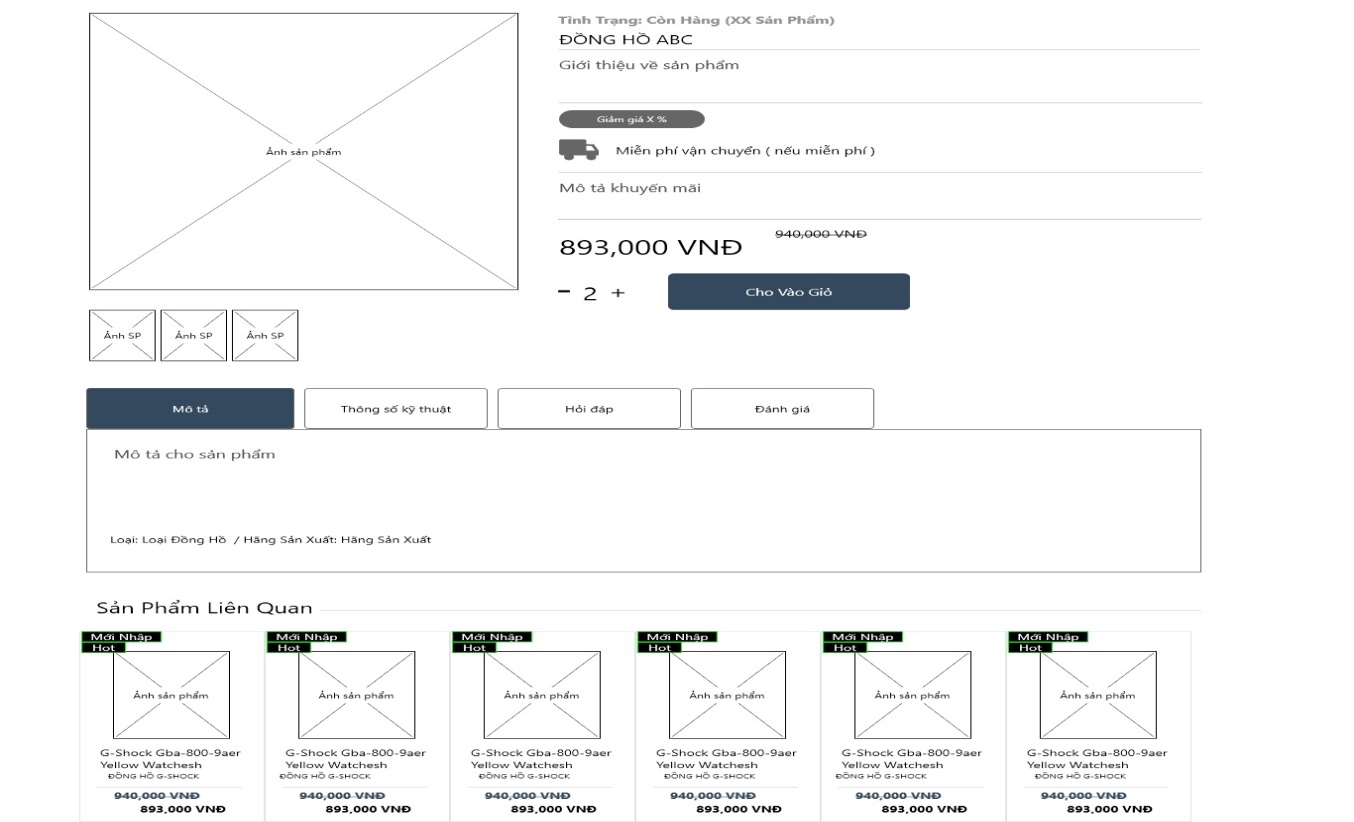
#### Giao diện đăng nhập – đăng ký :

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Giao diện Đăng nhập – Đăng ký

#### Giao diện Xem chi tiết sản phẩm :



###### Giao diện Xem chi tiết sản phẩm

#### Giao diện Lọc sản phẩm :

Ảnh có chứa văn bản, bản đồ

Mô tả được tạo tự động

###### Giao diện Lọc sản phẩm

#### Giao diện Mua hàng :

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Giao diện Mua hàng

#### Giao diện Tab Hỏi đáp :

![Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4S86RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE5OjA1OjE4IDE5OjIwOjQzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMzMgAAkpIAAgAAAAMzMgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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###### Giao diện Tab hỏi đáp

#### Giao diện Tab Đánh giá :

![Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4S/KRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE5OjA1OjE4IDE5OjIzOjM5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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OV82r0P4V/ErTvCeleJfDPiLTbjUvCnieO3iv/sMoju7ZoZd8U8JYFWZMv8jYD5wWXrUyvbQuNr6m7feDNV8YaHosdv8ACFfBq6xqVnFY+JoU1RLJ0m3IEdriWZGV2eJg6EECM4DbuN7w78PtI8RPceD/ABKljoNj8Obm/m8TeI7PDXV7AblIRFAI7bc+1x8pn3n94eUUBBQ0H4teFPhj4ButF8LTax4h1C617TtYMur6bFYRRC0ZnC4juZi5ZiB/DgZOT0rT8QfF34crF8W7zRU8TTan47iJihv7O3jisHa6S4kQus7GVSwOG2KVCgYbcSvP72yRr7u7Z598Y9H1HRrjwdHqOnaDp7T+GNPuYP7BgaITwyRlkluNwG65YH52HBIGK8+rv/jD8QNO+IN14Rl06G6hXSPDOnaNP9qRVLTW8Wx2XaxyhPQnB9QK4Ct4X5Vcxla+gUUUVZIV3v7P/wDyXj4b/wDYy6b/AOlUdcFXe/s//wDJePhv/wBjLpv/AKVR1FT4WVH4kftlS0lLXzp7wUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBxnxa/5FWx/7D+i/+nS1rs64z4tf8irY/wDYf0X/ANOlrXZ0AFFFFAHGar/yWTwv/wBgDVv/AEo02uzrjNV/5LJ4X/7AGrf+lGm12dABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFJS0UAfgfRX1z8aP8Agnr8QNJ8bahN4E0+DxF4cupmmtVW8hgmtkYkiKQSuoO3oGUnIAJweBwP/DCfxy/6Ef8A8q1j/wDH696Nam1ueI6U07WPBKK97/4YT+OX/Qj/APlWsf8A4/R/wwn8cv8AoR//ACrWP/x+q9tT/mF7OfY8Eor3v/hhP45f9CP/AOVax/8Aj9H/AAwn8cv+hH/8q1j/APH6PbU/5g9nPseCUV73/wAMJ/HL/oR//KtY/wDx+j/hhP45f9CP/wCVax/+P0e2p/zB7OfY8Eor3v8A4YT+OX/Qj/8AlWsf/j9H/DCfxy/6Ef8A8q1j/wDH6PbU/wCYPZz7HglFe9/8MJ/HL/oR/wDyrWP/AMfo/wCGE/jl/wBCP/5VrH/4/R7an/MHs59jwSu9/Z//AOS8fDf/ALGXTf8A0qjrvv8AhhP45f8AQj/+Vax/+P17V+y3+wj4z0H4laR4q8e20GiWOi3CXkFilzHPNPOhDR5MbMqqrAMTnJ24xzkZ1K1PlepcKU+ZaH6FUtFFeGeyFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcZ8Wv+RVsf8AsP6L/wCnS1rs64z4tf8AIq2P/Yf0X/06WtdnQAUUUUAcZqv/ACWTwv8A9gDVv/SjTa7OuM1X/ksnhf8A7AGrf+lGm12dABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcZ8Wv+RVsf8AsP6L/wCnS1rs64z4tf8AIq2P/Yf0X/06WtdnQAUUUUAcZqv/ACWTwv8A9gDVv/SjTa7OuM1X/ksnhf8A7AGrf+lGm12dABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcZ8Wv+RVsf8AsP6L/wCnS1rs64z4tf8AIq2P/Yf0X/06WtdnQAUUUUAf/9k=)

###### Giao diện Tab Đánh giá

#### 3.3.4.2. Giao diện Quản lý:

- Template chung cho giao diện quản lý được sử dụng chung cho các trang quản lý các giao diện khác trong mục giao diện người sử dụng sẽ được render ra phần “RenderBody”

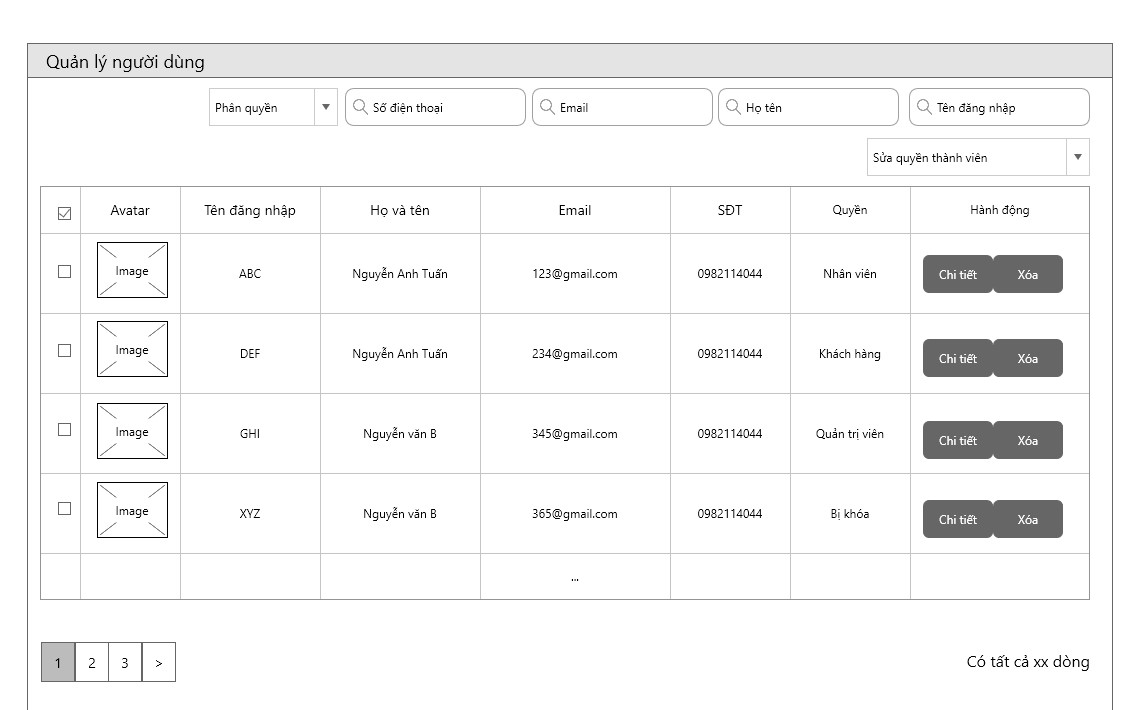
#### Template chung cho Giao diện quản lý :

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Giao diện Template chung cho Giao diện quản lý

#### Giao diện Quản lý người dùng:



###### Giao diện Quản lý người dùng

#### Giao diện Quản lý sản phẩm :

![Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SkoRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE5OjA1OjIxIDE5OjU3OjQzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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PiL8b/BXwrUL4i1yG1uyNy2UQMtwwPQ+WoJA9zge9eTXP7fXw6glKJpviK4UHAkjtIQD7/NMD+lfAWoahdareTXd7cS3d1MxeSedy7ux7knkmoKAPv/8A4eAfDz/oDeJv/AW3/wDj9H/DwD4ef9AbxN/4C2//AMfr4AooA+//APh4B8PP+gN4m/8AAW3/APj9H/DwD4ef9AbxN/4C2/8A8fr4AooA+/8A/h4B8PP+gN4m/wDAW3/+P0f8PAPh5/0BvE3/AIC2/wD8fr4AooA+/wD/AIeAfDz/AKA3ib/wFt//AI/R/wAPAPh5/wBAbxN/4C2//wAfr4AooA+//wDh4B8PP+gN4m/8Bbf/AOP0f8PAPh5/0BvE3/gLb/8Ax+vgCigD7/8A+HgHw8/6A3ib/wABbf8A+P0f8PAPh5/0BvE3/gLb/wDx+vgCigD7/wD+HgHw8/6A3ib/AMBbf/4/Sr+398PGYA6R4mUeptbfH/o+vz/ooA/TvwL+1V8NvHt0lpa68um3rttS31VPsxcngBWPyEk8ABs+1eu1+M9fW/7Hn7Sl/Z61Y+AfE13Jd2F2wg0u8nbL28n8MJJ5KMcKv904HQ/KAfcNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHGePP+Rq+HH/AGH5f/TXf12dcZ48/wCRq+HH/Yfl/wDTXf12dABRRRQAUUUUAFFFFABXGfBX/kjfgP8A7AFh/wCk8ddnXGfBX/kjfgP/ALAFh/6Tx0AdnRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFfl1+1B4mn8UfHXxbNNIXSzu2sIl7IkPyYH4hj9Sa/UWvy6/ag8My+Ffjt4ugkVgl3dm/idgcOswEhI9QGZl+qmgDyypbNbeS8gW7lkhtWkUTSQxiR0TPzFVLKGIGcAsM+o61FRQB69efBLRW1rw/pOl+JdSvb/WdJfWYVm0VIlWAW08yqSty5MhMIXaBgb87jjB5PQfhV4g1DxlB4e1HRtZ0u8aCS7kt/wCy5ZLryURmJSA7S5baVXJUFiAWHUdTb/GDTbPxl4Q1qCPUIRovhhtHdo1VZRc/ZZ4leMh/uh5UOcg4BOM4B0PB/wAatE0nwhaaFf29wsn9jHTZtQbS7XUTG638lzGFhuG2SR7XwQxUqwBHQGgDgL74XeJY9W1m107RdU1m30u5mtpruzsJmQGIjcWAX5CAVJVsFdwBANYuveGdY8K3UdrrWlX2kXMkYmjhv7Z4HeMkgOAwBKkqRnpwa9m039oK0sdU0W4u77VtUaz8TrrM91HYQWRmt1tIrdVEEUmxXARlwDjaeuWIrzvxd46h8TeA/COkMbuXU9Klv5Lu4uMFZTPKsilW3Ek8MTkDk980AU9P+G/iae60Uy+FtcktdUZWtfLsZlN3Ht3sYW8tt3yZbKq2BzgitTxR8LNU/wCE613R/Cug+IdWtLCdY1WTTZjcorqWTzE8tWUkKxG5FLBc7RyB203xV8B6je6ffa1p954g14QTwz+IbjR4I2Q+Ttt2az+0PDdMjfxOY8qq7g5FUfiV8adP8RaTf2WgPqdk040ZBKYIrNXWyhuVfMcL7UBklhdUUbRs7bVyAeU2ug6nfaq2l22nXdxqSl1NnFAzTAoCXGwDOVCsTxxg56V1/h74M+ItW1LWtMvtM1PSNXsdKbU4NOuNOkFxd4ljiVEQ4b5i5wQDyuMHt1fw58T2fiD9pbVfEUBvLPT76XW7+MxbUuYontbqQYwSBIAfXAI60kfxf0HQ/CJ8NaW2r3drD4e1DS4b+4t44JXmurqOVgY1lcJEEjK8OxJZuADQBh/DT4M6t4m8WXlhqumapp40toftVu2kXFwyySMPLjmjjKPGjKHZnyuFU4O4qDi6t4H1TxDqOoav4V8Ja4fC9xdsbBhZSyqsTSlIk3gMCdw2Y3MdwxliM16j4Y+N/gfT7zQL+90q9j1PSodJja9GlWl9JOlrDskhXzpMQZdUZZky+BjC4FZMPx3srWONbc6tAseia1p6CMqoWe8uJpY3GH4ADxbj1ynAOAaAPItR8P6po+sNpN/pt5ZaqrKjWNxA8c4ZgCoKEbskEEDHORW23wn8cLKsR8G+IBI0byhDpc+SikBmxs6AsAT2yPWtbxP8QdP1rxB4Fv4YbpY9C0uwsroSIoZ3gYlimGORjAGcdOgrs5Pj9YTaxDeSHV5FXx9/wlB3bS32MBVWP/Wf6wIpXb90DjdigDifAfwb8QePdGvdSsdM1WaBGSCza006SZLm4ZsbTJ8sccagEvIzfLleDnjlde0lNHexVVv1NxZxXLC/s/sxy4zmP523xkY2ycbhztFesWnxh8Mw3nh3XGt9Sj1TQNLudLt9GS1iawuVcTqrtJ5oaMET/OojbdtIyN2RwHxE8WWfi660GWzjnjWw0Wy02Xz1AJkhiCOVwT8pI4JwfYUAcnUlvcS2dxFPBI0M8TB45EOGVgcgg9iDUdSW1vLeXEVvAjSzSuI0RerMTgAfjQB+vPgnXm8VeC9A1tk2NqWn294VHbzI1fH/AI9W3WJ4H0NvC/gvQNGfG7TtPt7Q46ZjjVP6Vt0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcZ48/wCRq+HH/Yfl/wDTXf12dcZ48/5Gr4cf9h+X/wBNd/XZ0AFFFFABRRRQAUUUUAFcZ8Ff+SN+A/8AsAWH/pPHXZ1xnwV/5I34D/7AFh/6Tx0AdnRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFfP/AO1l+z1L8YNBt9X0NE/4SjS0YRxtgfbIepiz2YHJUnjJYHrkfQFFAH423tlcabdzWt3by2t1CxSWGZCjow6hlPIPsahr9XPiN8DfBPxUxJ4i0KC5vQAq30JMNwAOgMi4LAejZAz0rySX9gL4dySMy6r4kjB6It1BgfnATQB+f1Fff/8Aw7/+Hn/QZ8Tf+BVv/wDGKP8Ah3/8PP8AoM+Jv/Aq3/8AjFAHwBRX3/8A8O//AIef9BnxN/4FW/8A8Yo/4d//AA8/6DPib/wKt/8A4xQB8AUV9/8A/Dv/AOHn/QZ8Tf8AgVb/APxij/h3/wDDz/oM+Jv/AAKt/wD4xQB8AUV9/wD/AA7/APh5/wBBnxN/4FW//wAYo/4d/wDw8/6DPib/AMCrf/4xQB8AUV9//wDDv/4ef9BnxN/4FW//AMYo/wCHf/w8/wCgz4m/8Crf/wCMUAfAFFff/wDw7/8Ah5/0GfE3/gVb/wDxij/h3/8ADz/oM+Jv/Aq3/wDjFAHwBRX3/wD8O/8A4ef9BnxN/wCBVv8A/GKB/wAE/wD4eZH/ABOPEx/7erf/AOMUAfAFfWv7Hv7Nd/qGtWPjvxNaNaabaMJtMtJ1Ie4kHKzEHoi9V9SAeg5+hPAn7KPw38A3kd5baIdUvozuS41WT7QUPYhMBAffbketevAY4AwKAFooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA4zx5/yNXw4/7D8v8A6a7+uzrjPHn/ACNXw4/7D8v/AKa7+uzoAKKKKACiiigAooooAK4z4K/8kb8B/wDYAsP/AEnjrs64z4K/8kb8B/8AYAsP/SeOgDs6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOM8ef8jV8OP+w/L/AOmu/rs64zx5/wAjV8OP+w/L/wCmu/rs6ACiiigD/9k=)

###### Giao diện Quản lý sản phẩm

## 3.3 Giải pháp học sâu

### 3.3.1. Xây dựng mạng xác định đánh giá hợp lệ

#### 3.3.1.1. Dữ liệu đánh giá về các loại đồng hồ

Trong bài toán phân xác định đánh giá hợp lệ, tập dữ liệu sẽ chia làm 2 lớp: hợp lệ và không hợp lệ.

Các dữ liệu đánh giá hợp lệ được thu thập trên các trang thương mại điện tử lớn như thegioididong.com, lazada.vn, tiki.vn, sendo.vn ,shopee.vn… . Bao gồm các nhận xét về đồng hồ. Các dữ liệu đánh giá không hợp lệ được thu thập từ nhiều nguồn khác nhau như các bình luận trên youtube, lời bài hát, các trang báo tin tức, bình luận trên facebook, bình luận trên foody,.. . Số lượng các mẫu thu thập được như sau :

|  |  |  |
| --- | --- | --- |
|  | Đánh giá không hợp lệ | Đánh giá hợp lệ |
| Số lượng | 18665 | 40091 |

##### Số lượng dữ liệu cho mạng xác định bình luận hợp lệ

Xử lý dữ liệu trước khi đưa nó vào mạng : chúng phải được chuyển qua dạng vector thì mạng mới có thể hiểu được. Bước đầu tiên của việc này là tách câu ra thành các từ riêng biệt. Vì trong tiếng Việt khá phức tạp tồn tại từ ghép, mà khi tách từ ghép ra thành các tiếng đơn thì có thể không có nghĩa hoặc có thể thay đổi hoàn toàn nghĩa của từ. Vì vậy ta không thể tách câu ra dựa vào khoảng trắng. Có nhiều cách để giải quyết vấn đề này như thuật toán longest matching, CRF, … . Đồ án sử dụng thư viện tách tự tiếng Việt pyvi[9] dựa theo longest matching của thầy Trần Việt Trung.

Sau khi tách được từ, nhiệm vụ tiếp theo là phải chuyển từ sang dạng vector để máy tính có thể hiểu được.

**Hệ thống** **mạng xác định đánh giá hợp lệ** *sử dụng Word2Vec cho việc chuyển từ sang dạng vector : dùng thư viện Gensim và hàm Word2Vec để tạo CBOW model ( đã được giới thiệu ở cơ sở lý thuyết )*

#### 3.1.1.2. Thiết kế mạng xác định đánh giá hợp lệ.

Hệ thống xây dựng mạng dựa trên các lớp mạng LSTM

Hệ thống sử dụng mô hình mạng neural 3 lớp (1 lớp vào, 1 lớp ẩn, 1 lớp ra).Lớp ẩn là LSTM với số neural lớp ẩn lớn hơn 2.

Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động

###### Mô hình mạng xét duyệt đánh giá hợp lệ

Ở hình trên tham số None sẽ là batch size khi training .

Số chiều ra của mạng là 2 tương đương với xác suất mà đánh giá thuộc về với lớp đó. Để làm được điều này, ta chọn hàm kích hoạt của lớp ra là hàm softmax. Do ta chỉ cần thừa nhận một kết quả đúng của giá trị đầu ra. Kết quả đầu ra có tổng xác suất phân phối là 1. Giá trị nào có xác suất lớn nhất sẽ chọn giá trị đó. Không nên lựa chọn sigmoid vì đầu ra của nó thừa nhận nhiều câu trả lời đúng ( đầu ra không phải là xác suất phân phối , tổng không cần bằng 1).

### 3.3.2. Mạng dự đoán sao dựa vào nội dung đánh giá ( gợi ý thang điểm đánh giá )

#### 3.3.2.1. Dữ liệu đánh giá

Trong bài toán dự đoán sao dựa vào nội dung đánh giá tập dữ liệu sẽ chia làm 5 lớp tương ứng từ 1 đến 5 sao.

Các đánh giá cùng với nhãn tương ứng được thu thập trên các trang thương mại điện tử lớn như thegioididong.com, thegioididong, tiki.vn, sendo.vn, shopee. Gồm các đánh giá phản hồi về các loại đồng hồ. Số lượng các mẫu thu thập được như sau:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1 sao | 2 sao | 3 sao | 4 sao | 5 sao |
| Số lượng | 4364 | 2076 | 3081 | 5488 | 9072 |

##### Số lượng các lớp dữ liệu của mạng dự đoán sao dựa vào nội dung đánh giá

Xử lý dữ liệu trước khi đưa vào mạng :

* Có một thực tế là số các đánh giá trên các trang được đánh chưa được chính xác tất cả, có rất rất nhiều bình luận đãng lẽ 5 sao nhưng lại chỉ được đánh giá 1 sao ,2 sao. Hoặc3 có rất nhiều đánh giá không tốt nhưng lại được đánh 5 sao
* Do vậy cần phải gán lại nhãn cho các bình luận mà chưa được hợp lý.

Cách gán lại nhãn :

Em trực tiếp tra các đánh giá và gán lại nhãn bằng tay , tuy nhiên do số lượng tổng các đánh giá khá nhiều nên khả năng cao là vẫn còn bỏ sót khá nhiều nhãn chưa được gán lại, ngoài ra việc gán nhãn cũng chỉ theo trực quan của em và có những đánh giá khá khó khăn để chọn mức độ của nó là 2 sao 3 sao hay 4 sao .

#### 3.3.2.2 Xây dựng mạng dự đoán sao dựa vào nội dung đánh giá

Kiến trúc mạng cũng gần tương tự mạng xác định đánh giá hợp lệ bao gồm một lớp đầu vào, một lớp ẩn và một lớp đầu ra. Lớp ẩn sẽ là một LSTM với số neural ở lớp ẩn lớn hơn 5. Số chiều ra của mạng là 5 tương ứng với số lượng sao và hàm kích hoạt cuối cùng cũng là softmax.

### 3.3.3. Trả lời câu hỏi tự động

#### 3.3.3.1. Dữ liệu hỏi đáp về các sản phẩm

Tập dữ liệu hỏi đáp bao gồm 32406 mẫu câu hỏi đáp về đồng hồ được lấy từ trang thegioididong.com, lazada, bộ dữ liệu này có 3 thứ đó là tên sản phẩm , câu hỏi và câu trả lời của tên sản phẩm và câu hỏi đó (answer).

Cách xử lý dữ liệu trước khi đem vào train :

* Đầu tiên ta sẽ loại bỏ các ký tự như ‘-’ , ‘\_’, ‘\’ , ‘\\’ , ‘ \’….
* Bước tiếp theo là gộp phần tên sản phẩm và phần câu hỏi lại với nhau thành (context ) mục đích là để giúp mạng hiểu được câu hỏi này hỏi về sản phẩm nào.
* Mạng có 2 đầu là phần context và phần câu trả lời hiện tại của context , nhiệm vụ của mạng sẽ là đoán từ tiếp theo của câu trả lời : do vậy bộ dữ liệu sẽ được tách theo luật sau . VD phần context là “SamsungWatch : Có chống xước không nhỉ?” và câu trả lời hiện tại là “Dạ có chống xước ạ”:

|  |  |  |
| --- | --- | --- |
| **X** | | **Y** |
| **Input 1** | **Input 2** | **Out** |
| SamSungWatch : có chống xước không nhỉ? | BOS | Dạ |
| SamSungWatch : có chống xước không nhỉ? | BOS Dạ | có |
| SamSungWatch : có chống xước không nhỉ? | BOS Dạ có | chống |
| SamSungWatch : có chống xước không nhỉ? | BOS Dạ có chống | xước |
| SamSungWatch : có chống xước không nhỉ? | BOS Dạ có chống xước | ạ |
| SamSungWatch : có chống xước không nhỉ? | BOS Dạ có chống xước ạ | EOS |

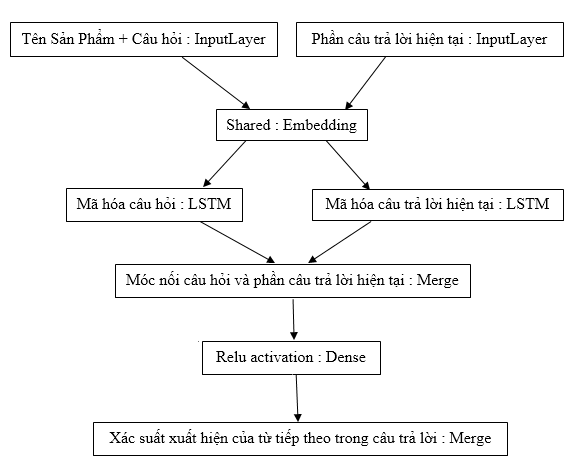
##### Ví dụ tách bộ dữ liệu để training mạng trả lời tự động

Các câu đầu vào đều được căn lề trái. Để cho mạng hiểu được đâu là bắt đầu của câu và kết thúc của câu, ta thêm 2 ký tự đặc biệt là BOS (bắt đầu của câu) và EOS (kết thúc của câu). Các từ trong câu sẽ được chuyển sang dạng số tương ứng với số thứ tự của nó trong từ điển.

#### 3.3.3.2. Xây dựng mạng trả lời câu hỏi tự động

Sau khi đã xử lý dữ liệu ta đã thu được 2 phần là context chứa tên sản phẩm và câu hỏi và phần answer là phần trả lời đây sẽ là 2 phần đầu vào của mạng.Bước đầu tiên cả 2 đầu vào này sẽ được đi qua một lớp Embedding . Sau đó chúng sẽ được mã hóa bằng 2 lớp LSTM riêng biệt. Mạng sẽ dự đoán từ tiếp theo sẽ xuất hiện trong câu trả lời nên đầu ra sẽ có kích thước bằng với kích thước của bộ từ điển mà mạng sử dụng, ứng với các xác suất xuất hiện của tiếp theo của các từ trong từ điển. Từ nào có xác suất cao nhất sẽ được lựa chọn.

Mạng có kiến trúc như sau:



###### Kiến trúc mạng trả lời câu hỏi tự động

Kết quả đầu ra của 2 lớp LSTM sẽ được móc nối vào nhau, sau đó đưa qua một lớp Dense với hàm activation là Relu. Cuối cùng, hàm đi qua lớp Dense với hàm activation là softmax và kích thước đầu ra bằng với kích thước của bộ từ điển.

# CHƯƠNG 4 : ĐÁNH GIÁ

## Xây dựng hệ thống

### 4.1.1. Ưu điểm :

* Đã xây dựng được hệ thống theo yêu cầu cơ bản của đề tài
* Giao diện người dùng dễ nhìn
* Hệ thống web khá dễ sử dụng cho người lần đầu tiên ,trang quản trị cũng khá dễ quản trị và dễ hiểu cho nhân viên và quản trị viên
* Tương đối đầy đủ các chức năng cơ bản : giỏ hàng , mua hàng , hỏi đáp và đánh giá sản phẩm như các trang đồng hồ hiện nay.
* Đã xây dưng được cơ bản hệ thống dự đoán sao dự trên đánh giá người dùng, lọc các đánh giá không liên và trả lời bình luận tự động

### 4.1.2. Nhược điểm :

* Hệ thống còn khá ít chức năng so với các trang thương mại điện tử lớn như lazada, shopee. Một vài chức năng vẫn chưa hoạt động thực sự tốt tại tất cả các trường hợp ( đã được biểu diễn ở testcase )
* Chất lượng của chức năng trả lời tự động không cao hệ thống chỉ trả lời được những câu hỏi cực kỳ đơn giản theo những sản phẩm nào đã được học.
* Khả năng lọc các đánh giá không liên quan tới đồng hồ vẫn chưa bao phủ được hết các trường hợp.
* Khả năng dự đoán sao với đánh giá của người dùng chỉ ở mức tạm chấp nhận được.
* Chưa có khả năng thanh toán trực tuyến

## Kiểm thử hệ thống

- Tóm tắt kết quả kiểm thử của một số test case: Đây là kết quả test case em đã nhờ một em học công nghệ thông tin test khi hoàn thành xong hệ thống ( dựa trên kịch bản test case em đã mô tả sẵn bên dưới) .

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| STT | Tên nhóm chức năng | Thành công | Thất bại | Chưa kiểm thử | Tổng cộng (Theo nhóm chức năng) |
| 1 | Đăng nhập – Đăng xuất | 5 | 0 | 0 | 5 |
| 2 | Hỏi đáp-Đánh giá | 8 | 1 | 0 | 9 |
| 3 | Quản lý người dùng | 5 | 0 | 0 | 5 |
| 4 | Liên quan tới Giỏ hàng-Mua hàng-Đơn hàng | 11 | 1 | 0 | 12 |
| Tổng cộng: | | | | | |
| Tỷ lệ kiểm thử | | | 33.33% | | |
| Tỷ lệ thành công | | | 94% | | |

##### Tóm tắt kết quả kiểm thử

- Mô tả nhóm test case Đăng nhập-Đăng xuất:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mã TC | Tên Test Case | Tên chức năng | Điều kiện tiên quyết | Các bước thực hiện | Kết quả mong đợi | Kết quả kiểm thử | Ghi chú |
| ĐN1 | Kiểm tra form đăng nhập điền đầy đủ thông tin | Đăng nhập | Khách vào trang web, chưa đăng nhập nhưng đã có tài khoản để đăng nhập | 1.Khách chọn đăng nhập | Hiện thị đầy đủ form đăng nhập ( tên đăng nhập và mật khẩu ) | Đạt |  |
| ĐN2 | Kiểm tra khách có nhập đủ các thông tin đăng nhập | 1.Khách chọn đăng nhập  2.Khác không nhập tên đăng nhập. Khách nhập mật khẩu nhưng không nhập tên đăn nhập và khách không nhập cả hai  3.Chọn đăng nhập | Thông báo chưa nhập đủ thông tin và cần nhập lại | Đạt |  |
| ĐN3 | Xác thực tài khoản tồn tại | 1. Khách chọn đăng nhập  2. Khách nhập tên đăng nhập  3. Khách nhập mật khẩu  4. Khách chọn đăng nhập" | Thông báo user không tồn tại, nếu khách chưa có tài khoản, hoặc thông báo thông tin đăng nhập. | Đạt |  |
| ĐN4 | Đăng nhập thành công | 1. Khách chọn đăng nhập  2. Khách nhập tên đăng nhập, mật khẩu 3. Khách chọn đăng nhập" | Đăng nhập thành công vào giao diện trang chủ đã login, tài khoản Admin hoặc nhân viên sẽ có link để vào trang quản trị ở gần tên user | Đạt |  |
| ĐN5 | Đăng xuất thành công | Khách đã đăng nhập | Chọn đăng xuất | Điều hướng về trang chủ chưa login | Đạt |  |

##### Mô tả test case nhóm chức năng đăng nhập- đăng xuất

- Mô tả usecase nhóm chức năng Hỏi đáp – Đánh giá

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mã TC | Tên Test Case | Tên chức năng | Điều kiện tiên quyết | Các bước thực hiện | Kết quả mong đợi | Kết quả kiểm thử | Ghi chú |
| HĐ1 | Kiểm tra hiển thị danh sách hỏi đáp (nếu có) và form hỏi đáp | Hỏi đáp | Khách vào trang xem chi tiết sản phẩm | 1.Khách chọn tab hỏi đáp | Hiện thị danh sách hỏi đáp (nếu có) và đầy đủ form hỏi đáp (họ tên, email ,nội dung nếu chưa đăng nhập) | Đạt |  |
| HĐ2 | Kiểm tra khách có nhập đủ các thông tin hỏi đáp | 1.Khách chọn tab hỏi đáp  2.Khách không nội dung câu hỏi. hoặc không nhập email hoặc không nhập họ tên nếu có.  3.Chọn gửi | Thông báo chưa nhập đủ thông tin và cần nhập lại | Đạt |  |
| HĐ3 | Kiểm tra có kết quả hiển thị sau khi hỏi thỏa mãn | 1.Khách chọn tab hỏi đáp  2.Khách nhập đầy đủ thông tin và nội dung câu hỏi  3.Chọn gửi | Hiển thị câu hỏi của khách hàng cùng câu trả lời tự động trên tab hiển thị hỏi đáp | Đạt |  |
| ĐG1 | Kiểm tra hiển thị danh sách đánh giá (nếu có) và form hỏi đáp | Đánh giá | Khách vào trang xem chi tiết sản phẩm | 1.Khách chọn tab đánh giá | Hiện thị danh sách đánh giá(nếu có) và đầy đủ form đánh giá (họ tên, email ,nội dung nếu chưa đăng nhập) | Đạt |  |
| ĐG2 | Kiểm tra khách có nhập đủ các thông tin đánh giá |  | 1.Khách chọn tab đánh giá  2.Khách không nội dung đánh giá. hoặc không nhập email hoặc không nhập họ tên nếu có.  3.Chọn gửi | Thông báo chưa nhập đủ thông tin và cần nhập lại | Đạt |  |
| ĐG3 | Kiểm tra loại bỏ đánh giá không liên quan |  | 1.Khách chọn tab hỏi đáp  2.Khách nhập đầy đủ thông tin và nội dung đánh giá , nội dung đánh giá là một câu về thực phẩm  3.Chọn gửi | Thông báo lại cho người dùng nội dung đánh giá không hợp lệ | Không Đạt | “Để làm được món ăn này khó lắm”  Vẫn hiển thị lên tab đánh giá sao |
| ĐG4 | Kiểm tra loại kết quả hiển thị sao khi người dùng gõ đánh giá |  | 1.Khách chọn tab hỏi đáp  2.Khách nhập nội dung đánh giá , trên 20 ký tự | Hiển thị số sao mà hệ thống đánh giá ngay trên textarea đánh gíá | Đạt |  |
| ĐG5 | Người dùng đánh giá lại sao |  | 1.Khách chọn tab hỏi đáp  2.Khách nhập nội dung đánh giá, và đầy đủ thông tin. nội dung đánh giá liên quan tới đồng hồ  3.Khách chọn lại sao.  4.Khách ấn gửi | Load lại tab đánh giá với nội dung và đúng số sao của người dùng. | Đạt |  |
| ĐG6 | Kiểm tra loại kết quả hiển thị sau khi gửi đánh giá với số sao hệ thống dự đoán. |  | 1.Khách chọn tab hỏi đáp  2.Khách nhập đầy đủ thông tin và nội dung đánh giá , nội dung đánh giá liên quan tới đồng hồ  3.Chọn gửi | Load lại tab đánh giá với nội dung và đúng số sao mà hệ thống đã dự đoán | Đạt |  |

##### Mô tả test case nhóm chức năng Hỏi đáp – Đánh giá

- Mô tả usecase nhóm chức năng Quản lý nhân viên :

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mã TC | Tên Test Case | Tên chức năng | Điều kiện tiên quyết | Các bước thực hiện | Kết quả mong đợi | Kết quả kiểm thử | Ghi chú |
| ND1 | Xác định chức năng xem danh sách người dùng. | Quản lý người dùng | Đã đăng nhập với tư cách Quản trị viên | 1.QTV chọn chức năng danh sách người dùng. | Hiện thị đầy đủ danh sách người dùng trên giao diện quản lý người dùng | Đạt |  |
| ND2 | Xác định chức năng xóa người dùng | 1.QTV chọn thành viên cần xóa và ấn xóa | Hiển thị thông alert xác nhận xóa. | Đạt |  |
| ND3 | Xóa người dùng | 1.QTV chọn thành viên cần xóa và ấn xóa  2.QTV xác nhận OK trên thanh alert | Xóa người dùng thành công hiển thị lại danh sách không có người dùng đã xóa | Đạt |  |
| ND4 | Thay đổi phân quyền | 1.QTV tích chọn người dùng cần phân quyền  2. QTV chọn quyền muốn sửa và bấm “sửa” | Hệ thống hiển thị lại danh sách người dùng với phân quyền của người dùng đã được sửa | Đạt |  |
| ND5 | Tìm kiếm người dùng |  |  | 1.QTV nhập nội dung tìm kiếm | Hệ thống hiển thị lại danh sách người dùng thỏa mãn với yêu cầu tìm kiếm | Đạt |  |

##### Mô tả test case nhóm chức năng quản lý người dùng

- Mô tả test case nhóm chức năng liên quan tới Giỏ hàng – Mua hàng – Đơn hàng

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mã TC | Tên Test Case | Tên chức năng | Điều kiện tiên quyết | Các bước thực hiện | Kết quả mong đợi | Kết quả kiểm thử | Ghi chú |
| GH1 | Thêm sản phẩm vào giỏ | Thêm sản phẩm vào giỏ hàng | Khách vào trang chủ của hệ thống. | 1.Khách chọn Cho vào giỏ | Hiển thị thông báo thành công và cập nhật giỏ hàng, hiển thị số sản phẩm và số tiền trên tab giỏ hàng gần thanh tìm kiếm | Đạt |  |
| GH2 | Kiểm tra Xem giỏ hàng | Xem giỏ hàng | 1.Khách chọn Giỏ hàng  2.Khách chọn Xem | Hiển thị danh sách các sản phẩm đã thêm vào giỏ | Đạt |  |
| GH3 | Kiểm tra thay đổi số lượng sản phẩm trong giỏ | Thay đổi số lượng sản phẩm trong giỏ | Đã thêm sản phẩm vào giỏ hàng | 1.Khách chọn Giỏ hàng  2.Khách chọn Xem  3.Khách chọn (+) hoặc (–) | Hiển thị số lượng sản phẩm thay đổi và cập nhật số tiền | Đạt |  |
| GH4 | Kiểm tra Xóa sản phẩm khỏi giỏ | Xóa sản phẩm khỏi giỏ hàng | 1.Khách chọn Giỏ hàng  2.Khách chọn Xem  3.Khách chọn X tại sản phẩm cần xóa khỏi giỏ hàng | Xóa sản phẩm khỏi giỏ hàng | Đạt |  |
| MH1 | Kiểm tra hiển thị giao diện và form mua hàng | Mua hàng | Khách hàng đã đăng nhập vào hệ thống | 1.Khách hàng chọn Giỏ hàng  2.Khách hàng chọn Xem  3.Khách hàng chọn Đặt Hàng | Hiện thị danh sách sản phẩm trong giỏ hàng và form mua hàng ( có các thông tin người mua địa chỉ , sđt...) | Đạt |  |
| MH2 | Kiểm tra khách có nhập đủ các thông tin mua hàng. | 1.Khách hàng chọn Giỏ hàng  2.Khách hàng chọn Đặt Hàng  3.Khách hàng nhập thông tin | Thông báo chưa nhập đủ thông tin và cần nhập lại | Đạt |  |
| MH3 | Kiểm tra đặt hàng khi chưa có sản phẩm trong giỏ | 1.Khách hàng chọn Giỏ hàng  2.Khách hàng chọn Đặt Hàng  3.Khách hàng nhập thông tin và ấn gửi | Thông báo cho khách hàng chưa có sản phẩm trong nào | Đạt |  |
| MH4 | Kiểm tra Mua hàng thành công | 1.Khách hàng chọn Giỏ hàng  2.Khách hàng chọn Đặt Hàng  3.Khách hàng nhập thông tin và ấn gửi | Chuyển sang trang danh sách đơn hàng đã có đơn hàng vừa mua | Đạt |  |
| ĐH1 | Kiểm tra danh sách đơn hàng | Xem Đơn hàng | Khách hàng đã đăng nhập vào hệ thống | 1.Khách hàng chọn xem đơn hàng ở thanh tab trên cùng | Hiển thị danh sách tất cả các đơn hàng đã đặt | Đạt |  |
| ĐH2 | Kiểm tra Xem Chi tiết đơn hàng | Xem chi tiết đơn hàng | 1.Khách hàng chọn xem đơn hàng ở thanh tab trên cùng  2.Khách hàng chọn xem chi tiết đơn hàng của đơn hàng cần xem | Hiển thị danh sách sản phẩm đã đặt trong đơn hàng | Đạt |  |
| ĐH3 | Kiểm tra Xóa đơn hàng | Xóa đơn hàng | 1.Khách hàng đã đăng nhập vào hệ thống  2.Đơn hàng đang ở trạng thái đang duyệt | 1.Khách hàng chọn xem đơn hàng ở thanh tab trên cùng  2.Khách hàng chọn hủy đơn hàng tại đơn hàng bạn muốn hủy | Cập nhật lại danh sách đơn hàng với đơn hàng vừa hủy có trạng thái đơn hàng đã hủy | Không đạt | Đã về trạng thái đơn hàng nhưng giao diện bị vỡ |

##### Mô tả test case nhóm chức năng liên quan tới Giỏ Hàng-Mua Hàng-Đơn Hàng

## Đánh giá độ chính xác

### 4.3.1. Phương pháp đánh giá.

Để đánh giá độ chính xác ( hay hiệu năng ) của hệ thống học máy ta có 2 cách [10]:

+ Đánh giá lý thuyết ( theoretically ) : nghiên cứu các khía cạnh lý thuyết của một hệ thống mà có thể chứng minh được ( tốc độ học , thời gian học , khả năng chống nhiễu, độ chính xác trung bình của hệ thống….)

+ Đánh giá trên thực nghiệm ( experimentally ) : quan sát hệ thống làm việc trong thực tế, sử dụng một hoặc nhiều tập dữ liệu và các tiêu chí đánh giá. Tổng hợp đánh giá từ các quan sát đó. ( Với đồ án em sử dụng cách đánh giá thực nghiệm )

### 4.3.2. Hệ thống lọc đánh giá hợp lệ

Bộ dữ liệu để huấn luyện mạng gồm 58756 mẫu câu đánh giá. Trong đó ta sẽ chia thành 3 tập con là tập train 46996 mẫu, tập validate 5880 mẫu và mẫu test là 5880. Các câu được gán nhãn là 0 và 1 , nhãn 0 tương ứng với câu đánh giá không hợp lệ và nhãn 1 tương ứng với câu đánh giá hợp lệ

Như đã đề cập ở mục giải pháp, kiến trúc mạng bao gốm một lớp đầu vào , một lớp ẩn và một lớp đầu ra , lớp ẩn sẽ là một LSTM với số neural ở lớp ẩn lớn hơn 2. Và số chiều ra là 2.

Ta sẽ sử dụng hàm tối ưu hóa RMSprop với learning rate 5x10-5 và decay là 0. Vì mỗi đầu vào chỉ thuộc về một lớp duy nhất, hàm kích hoạt lớp cuối sẽ là hàm softmax và sử dụng hàm mất mát categorical crossentropy.

Tiến hành training một vài model ta thu được bảng kết quả sau :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Số neural lớp ẩn** | **Số epoch** | **Validate Loss** | **Validate Accuracy** | **Test Loss** | **Test Accuracy** |
| 1 | 8 | 100 | 0.0682 | 0.9554 | 0.0621 | 0.9655 |
| 2 | 16 | 100 | 0.0598 | 0.9795 | 0.0590 | 0.9743 |
| 3 | 32 | 100 | **0.0527** | **0.9828** | **0.****0557** | **0.9812** |

##### Bảng kết quả training mạng xác định đánh giá hợp lệ.

Biểu đồ hàm loss và accuracy của mạng thứ 3 (LSTM 32 neural) như sau:

![Ảnh có chứa ảnh chụp màn hình

Mô tả được tạo tự động](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REWRXhpZgAATU0AKgAAAAgABAE7AAIAAAAZAAAISodpAAQAAAABAAAIZJydAAEAAAAyAAAQ3OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5ndXllbiBBbmggVHVhbiAyMDE0NDg5OAAAAAWQAwACAAAAFAAAELKQBAACAAAAFAAAEMaSkQACAAAAAzE5AACSkgACAAAAAzE5AADqHAAHAAAIDAAACKYAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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###### Biểu đồ loss của mạng lọc đánh giá hợp lệ LSTM32

![Ảnh có chứa ảnh chụp màn hình

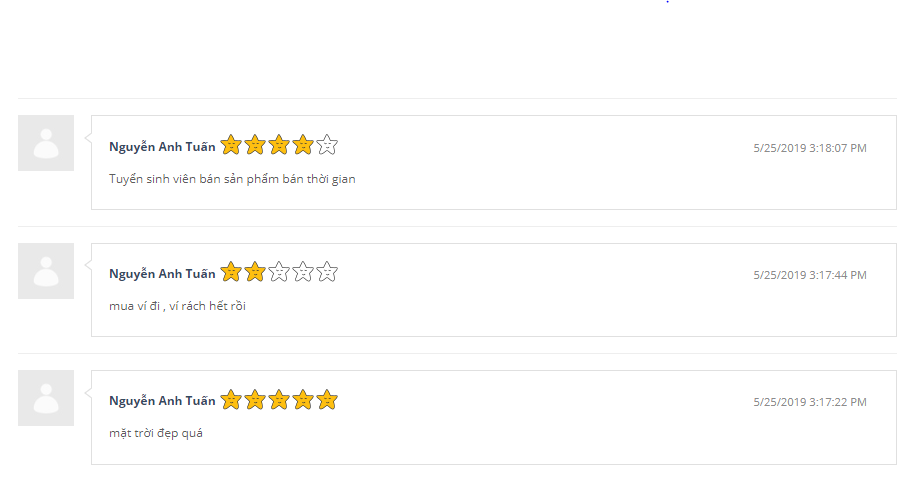
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###### Biểu đồ accuracy của mạng lọc đánh giá hợp lệ LSTM32

Kết quả thử nghiệm khi đã tích hợp hệ thống vào trang web :



###### Hình ảnh thử nghiệm hệ thống lọc đánh giá trên trang web (1)



###### Hình ảnh thử nghiệm hệ thống lọc đánh giá trên trang web (2)

Kết quả đầu ra của mạng phân loại đánh giá có 2 phân lớp : phân lớp 1 là phân lớp các không hợp lệ , phân lớp 2 là phân lớp các đánh giá hợp lệ.Mạng trả về phân lớp nào có xác suất lớn hơn thì đánh giá thuộc về phân lớp đó.

Mạng xác định đánh giá hợp lệ có kết quả rất tốt, nhất là các câu nằm trong lĩnh vực mà mạng được huấn luyện. Với những câu không nằm trong lĩnh vực được học, mạng còn khá nhiều sai sót như trong hình 46 các đánh giá khá không liên quan nhưng nó chưa có trong bộ dữ liệu được học nên hệ thống vẫn cho nó là hợp lệ.

### 4.3.3. Hệ thống dự đoán sao dựa vào nội dung đánh giá

Bộ dữ liệu để huấn luyện mạng gồm 24081 mẫu câu đánh giá. Trong đó ta sẽ chia thành 3 tập con là tập train 19266 mẫu, tập validate 2408 mẫu và 2409 mẫu tập test.

Với mạng này, ta sẽ sử dụng hàm tối ưu hóa RMSprop với learning rate 3x10-5 và decay là 10-8. Hàm mất mát là hàm categorical crossentropy. Tiến hành thử nghiệm trên một vài thông số mạng.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Số neural lớp ẩn** | **Số epoch** | **Validate Loss** | **Validate Accuracy** | **Test Loss** | **Test Accuracy** |
| 1 | 8 | 50 | 0.7105 | 0.6142 | 0.6988 | 0.6249 |
| 2 | 16 | 26 | 0.5307 | 0.6653 | **0.5416** | **0.6584** |
| 3 | 32 | 23 | 0.5930 | 0.6487 | 0.6052 | 0.6396 |

##### Bảng kết quả training mạng dự đoán sao dựa trên đánh giá.

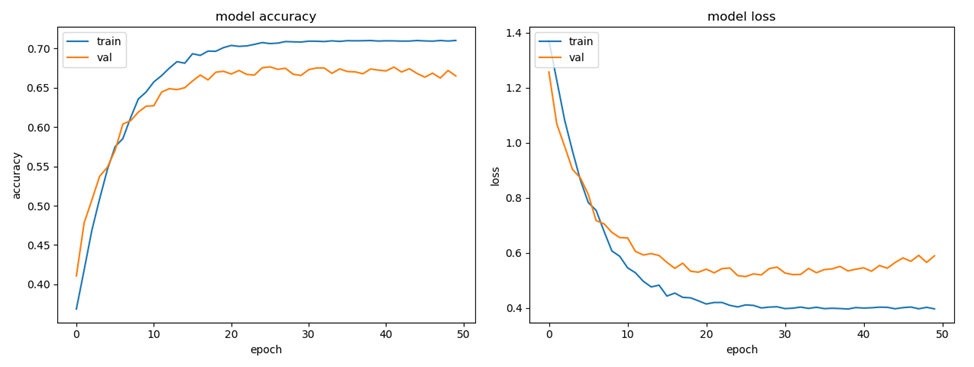
Với mạng 8 neural lớp ẩn, kết quả khá tệ do mạng quá đơn giản, không thể biểu diễn được tập dữ liệu dẫn đến hiện tượng under fitting.

Với mạng 32 neural lớp ẩn, kết quả cũng khá tệ, accuracy train rất cao nhưng accuracy của tập validate lại rất thấp, mạng đã bị overfiting nặng.

Với mạng 16 neural lớp ẩn, dù cho kết quả tốt nhất với accuracy tập test đạt 0.6584 nhưng mạng vẫn có dấu hiệu bị overfiting nhẹ.

Tình trạng này có thể do dữ liệu thu thập còn chưa đủ bao quát hết các đặc trưng của các trường hợp tổng thể. Ngoài ra còn có thể do dữ liệu chưa tinh khiết, VD nhiều bình luận khá giống nhau ngữ cảnh nhưng lại được đánh giá sao khác nhau hoàn toàn.

Đồ thị loss và accuracy mạng dự đoán sao (LSTM 32) :



###### Đồ thị loss, accuracy mạng dự đoán sao LSTM(16).

Kết quả thử nghiệm khi tích hợp với web:



###### Hình ảnh thử nghiệm hệ thống dự đoán sao dựa trên đánh giá

### 4.3.4. Hệ thống trả lời câu hỏi tự động

Bộ dữ liệu để huấn luyện mạng gồm 32406 mẫu câu hỏi đáp. Trong đó ta sẽ chia thành 3 tập con là tập train 25924 câu, tập validate 3241 câu và tập test 3241 câu.

Với mạng này, ta sẽ sử dụng hàm tối ưu hóa Adagrad. Vì đầu ra là một ma trận one-hot nên ta sẽ sử dụng hàm mất mát categorical crossentropy.

Tiến hành huấn luyện model với embedding\_size = 128 với số epoch là 50 ta thu được kết quả : *Validate loss = 1.4715 , validate accuracy = 0.5846*

Ảnh có chứa bản đồ, văn bản

Mô tả được tạo tự động

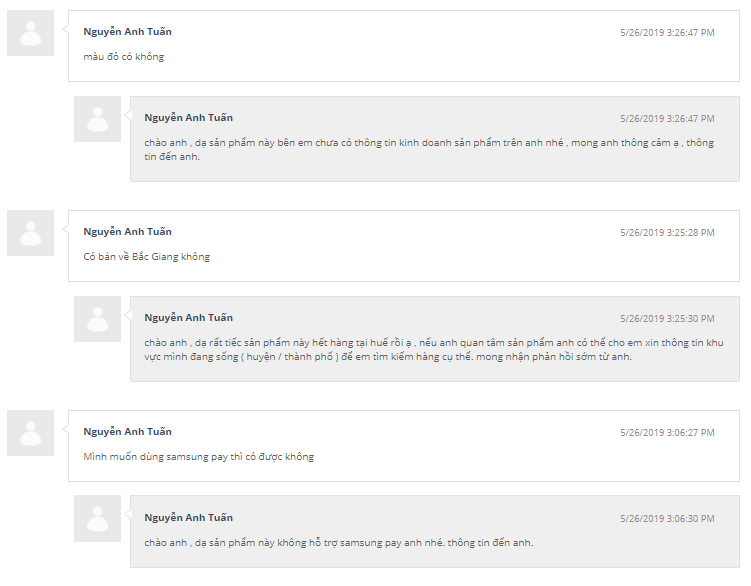
###### Biểu đồ accuracy mạng trả lời câu hỏi tự động

Ảnh có chứa văn bản, bản đồ

Mô tả được tạo tự động

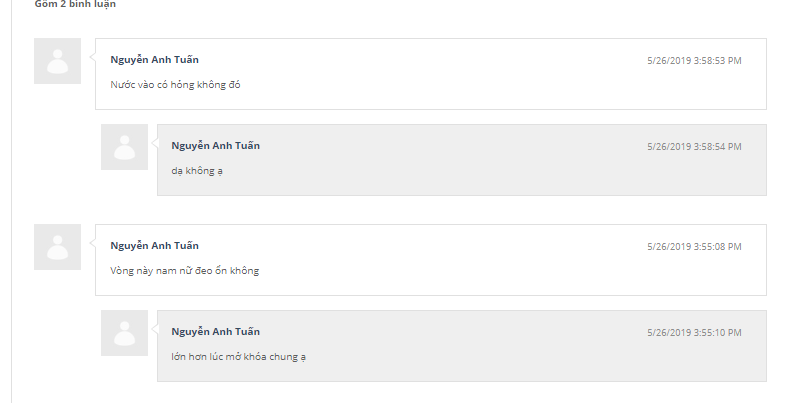
###### Biểu đồ loss mạng trả lời câu hỏi tự động

Kết quả thử nghiệm khi tích hợp với web :



###### Hình ảnh thử nghiệm hệ thống trả lời câu hỏi tự động (1)

Với hình trên các câu hỏi được hỏi với tên sản phẩm là “Đồng hồ thông minh Samsung Galaxy watch 46mm” . Với câu hỏi “Có màu đỏ không”, “Mình muốn dùng samsung pay thì có được không” Hệ thống trả lời khá chính xác so với những gì được học. Còn câu “Có bán về Bắc giang không” thì câu trả lời chưa chính xác , câu hỏi hỏi về tỉnh Bắc Giang , tuy nhiên câu trả lời lại trả lời là hết hàng tại Huế.



###### Hình ảnh thử nghiệm hệ thống trả lời câu hỏi tự động (2)

Với hình trên tên sản phẩm là : “Đồng hồ thông minh C1 plus”. Câu đầu tiên nội dung trả lời hoàn toàn sai vì sản phẩm không chống nước câu thứ 2 thì trả lời không đúng không hỏi của khách hàng.

Nhận Xét :

Kết quả của hệ thống trả lời câu hỏi tự động còn khá hạn chế , Với các câu cần sự truy vấn thì không thể truy vấn thông tin lại cho người dùng. Hệ thống chỉ có khả năng trả lời hợp lý với những câu hỏi có liên quan tới sản phẩm có nhiều bộ hỏi đáp trong tập dữ liệu hỏi đáp .

Tập dữ liệu còn khá hạn chế chỉ hơn 32000 nghìn câu hỏi nhưng phân rã ra gần 400 sản phẩm nên số lượng câu hỏi ở mỗi sản phẩm là rất ít. Ngoài ra chất lượng của các câu hỏi và câu trả lời cũng không được hoàn hảo.

## So sánh hệ thống bán đồng hồ khác

Hầu hết các hệ thống bán đồng hồ hiện nay chưa có hệ thống gợi ý đánh giá sao dựa trên nội dung đánh giá của người dùng ,đây sẽ là một điểm mạnh cho trang web bán hàng của em. Ngoài ra hệ thống trả lời tự động web bán đồng hồ là khá hữu ích nó giải quyết bớt được phần nào về vấn đề nhân lực và chi phí nhân công. ( Tuy nhiên cần thêm thời gian triển khai hệ thống để thu thập thêm dữ liệu về bộ câu hỏi và câu trả lời )

Tuy nhiên với những điểm mạnh nêu trên thì trang trang web bán đồng hồ của em còn khá hạn chế về phương thức thanh toán điện tử, các chức năng liên kết với các nhà phân phối đồng hồ trực tiếp trên web.

# CHƯƠNG 5 : KẾT LUẬN

Qua một thời gian học tập và nghiên cứu em đã hoàn thành đồ án “WEBSITE BÁN ĐỒNG HỒ ÁP DỤNG TRẢ LỜI TỰ ĐỘNG VÀ GỢI Ý THANG ĐIỂM ĐÁNH GIÁ”. Đồ án đã đạt được những kết quả chính như sau :

* Xây dựng được hệ thống bán đồng hồ với các chức năng cơ bản mà các trang web bán hàng trực tuyến phải có như : Giỏ hàng, Mua hàng, Đánh giá sản phẩm, Hỏi đáp về sản phẩm…Các chức năng dành cho người quản lý như Quản lý sản phẩm, Quản lý đơn hàng, Quản lý người dùng..
* Trang web đã tích hợp được hệ thống trả lời tự động câu hỏi của người dùng dựa trên mô hình mạng LSTM .Tính năng giúp giảm thiểu chi phí vận hành trang web
* Trang web đã tích hợp được hệ thống gợi ý thang điểm đánh giá ( gợi ý sao ) giúp người dùng có cơ sở để đánh giá sao cho sản phẩm một cách đúng đắn nhất.
* Ngoài ra hệ thống tích hợp thêm loại bỏ một số các đánh giá không liên quan tới sản phẩm. Giúp giảm thiểu chi phí duyệt các đánh giá bằng tay khá vất vả

Tuy nhiên, do còn khá nhiều hạn chế trong việc thu thập dữ liệu, tiền xử lý dữ liệu và việc lựa chọn mô hình mạng nên kết quả của hệ thống gợi ý thang điểm đánh giá còn chưa cao , chỉ ở mức tạm chấp nhận được . Hệ thống trả lời tự động các câu hỏi còn khá thấp . Hệ thống loại bỏ một số đánh giá không liên quan thì chưa bao phủ được tất cả các trường hợp không liên quan (nhưng trong các lĩnh vực được học thì lại cho kết quả rất tốt)

Hướng phát triển tương lai cho hệ thống:

* Phát triển thêm các chức năng của hệ thống web giúp người dùng có nhiều trải nghiệm và tính năng thú vị hơn. Nhất là chức năng thanh toán trực tuyến . Ngoài ra tích hợp thêm liên kết với các người bán lẻ đồng hồ để họ có thể bán các sản phẩm đồng hồ trực tiếp trên trang web
* Tiếp tục thu thập dữ liệu đánh giá của người dùng về đồng hồ, đặc biệt là dữ liệu về hỏi đáp đồng hồ để có thể gia tăng sự huấn luyện và độ chính xác của hệ thống đánh giá và trả lời tự động.
* Tìm hiểu thêm các giải pháp cho bài toán trả lời tự động để giúp tăng độ chính xác cho câu trả lời. VD: Cố gắng kết hợp 2 dạng mô hình sinh và trích chọn thông tin để giúp hệ thống vừa có khẳ năng sinh câu hỏi vừa có thể đúng hơn về mặt ngữ pháp.

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