



International School

## Capstone Project 1

*CMU-SE 450*

### Product Backlog and User Story

*Version: 2.1*

*Date: 04/09/2021*

# School Connect Application

**Submitted by:**

Nguyen Thanh Phu

Nguyen Trung Hieu

Dang Nguyen Bao Hoai

**Approved by**

Nguyen Minh Nhat

**Product Backlog and User Story Review Panel Representative:**

Name	Signature	Date
------	-----------	------

**Capstone Project 1- Mentor:**

Name	Signature	Date
------	-----------	------

## Project Information

<b>Project acronym</b>	SConA		
<b>Project Title</b>	School Connect Application		
<b>Start Date</b>	22-Aug-2021	<b>End Date</b>	18-Dec-2021
<b>Lead Institution</b>	International School, Duy Tan University		
<b>Project Mentor &amp; contact details</b>	Name: Nguyen Minh Nhat Email: <a href="mailto:nhatnm2010@gmail.com">nhatnm2010@gmail.com</a> Tel: +84 905 125 143		
<b>Scrum Master &amp; contact details</b>	Name: Nguyen Thanh Phu Email: <a href="mailto:thangphu104@gmail.com">thangphu104@gmail.com</a> Tel: +84 772 492 301		
<b>Team members</b>	<b>Name</b>	<b>Email</b>	<b>Tel</b>
	Nguyen Trung Hieu	<a href="mailto:hnguyentrung20@gmail.com">hnguyentrung20@gmail.com</a>	+84 975 299 149
	Dang Nguyen Bao Hoai	<a href="mailto:dangbhoai@gmail.com">dangbhoai@gmail.com</a>	+84 773 305 395

DOCUMENT INFORMATION			
<b>Document Title</b>	Project plan		
<b>Author(s)</b>	Team C1SE.44		
<b>Role</b>	C1SE.44-ProductBacklog and User story-SConA-v1.0		
<b>Date</b>	04-Sep-2021	<b>Filename</b>	C1SE.44-ProductBacklog and User story-SConA-v1.0.docx
<b>URL</b>	<a href="https://github.com/PhuNguyenThang/Capstone1">https://github.com/PhuNguyenThang/Capstone1</a>		
<b>Access</b>	Project and CMU Program		

## DOCUMENT APPROVALS

The following signatures are required for approval of this document.

Nguyen Minh Nhat <i>Mentor</i>	Signature	Date
Nguyen Thanh Phu <i>Scrum Master</i>	Signature	Date
Nguyen Trung Hieu <i>Product owner</i>	Signature	Date
Dang Nguyen Bao Hoai <i>Product owner</i>	Signature	Date

## REVISION HISTORY

Version	Date	Comments	Author	Approval
1.0	04-Aug-2021	Create project plan document	Nguyen Trung Hieu	

Product	School Connect Application
Active versions	1

Product Status	New Project
Sponsor	Nguyen Minh Nhat

Team	
Scrum Master	Nguyen Thanh Phu
Developers	Nguyen Trung Hieu
	Dang Nguyen Bao Hoai

Product Owner	Nguyen Trung Hieu
	Dang Nguyen Bao Hoai
Project Champion	
Other Stakeholders	Nguyễn Thị Minh Huệ

Projects						Sprint Plan					
Id	Description	Start	End	Status	Sprint	Start	End	Status	Story Points (Committed)	Story Points (Delivered)	
1	Initial release	18/Aug/21	05/Sep/21	Done	1	06/Sep/21	03/Oct/21	Done	210	213	
1.1	Project’s Kick-off Meeting	18/Aug/21	22/Aug/21	Done	2	04/Oct/21	31/Oct/21	Done	210	233	
1.2	Proposal	19/Aug/21	20/Aug/21	Done	3	01/Nov/21	21/Nov/21	Done	157.5	159	
1.3	Research technical	20/Aug/21	30/Aug/21	Done	4	22/Nov/21	12/Dec/21	Done	157.5	160	
1.4	Project plan	31/Aug/21	01/Sep/21	Done							
1.5	Product backlog	02/Sep/21	03/Sep/21	Done							
1.6	User story	04/Sep/21	05/Sep/21	Done							
2	Development	06/Sep/21	12/Dec/21	Done							
2.1	Sprint 1	06/Sep/21	03/Oct/21	Done							
2.2	Sprint 2	04/Oct/21	31/Oct/21	Done							
2.3	Sprint 3	01/Nov/21	21/Nov/21	Done							
2.4	Sprint 4	22/Nov/21	12/Dec/21	Done							
3	Close project	13/Dec/21	15/Dec/21	Done							

ID	Epic	Name User Story	Actor	I want to ..	so that ..	Priority	Acceptance criteria	Status	Sprint
PB01	Login user	Login user	Student, teacher	As an student, teacher, I want to log in the web	I can use the website	Hight	<ul style="list-style-type: none"><li>_ Minimum password length 8 characters and no spaces</li><li>_ Enter the correct username and password, then I can log into the system</li><li>_ Wrong username or password or both I can't log in to the system</li><li>_ I entered the wrong username or password, I want to know exactly where I went wrong</li><li>_ The system will accept to allow the user to enter the system if the username and password are correct</li></ul>	Completed	1
PB02	The post or event managerment	Create the post	Student, teacher	As an student, teacher, I want to post new in a forum	I can show others new articles and make new announcements	Very hight	<ul style="list-style-type: none"><li>_ The system displays a button to create a new post for the user</li><li>_ If it is a post, the user enters the information of the [Content] fields with the alphanumeric format or special characters, [Image] with IMG format</li><li>_ If it is an event, the user enters the information of the fields [Event Name], [Content] with the alphanumeric format or special characters, [Event Address] with the alphanumeric format, [Image] with IMG format, [event date] must be new and [time Of Event] fields must not be negative</li><li>_ Show the status when posting the article successfully by showing a message and send to censor for the moderator to censor that post</li></ul>	Completed	1
		Modify the post	Student, teacher	As an student, teacher, I want to edit a my post	I can update infortation post was change	Hight	<ul style="list-style-type: none"><li>_ The system displays your articles for users to edit</li><li>_ If it is an article, the user enters new information in the [Content] fields with the alphanumeric format or special characters, [Image] in IMG format</li><li>_ If it is an event, the user enters new information in the fields [Event Name], [Content] with an alphanumeric format or special characters, [Event Address] with the alphanumeric format, [Image] with IMG format, [event date] must be new and [time Of Event] fields must not be negative</li><li>_ Show status when post update is successful by showing updated post and send to censor for the moderator to censor that post</li></ul>	Completed	1
		Delete the post	Student, teacher	As an student, teacher, I want to other people can't see the post	I can delete my post	Low	<ul style="list-style-type: none"><li>_ The system displays posts on the homepage and forum, if you want to delete a post, you can only delete your post with the delete button displayed on the post.</li><li>_ Display status when deleting post successfully if valid. Otherwise, the system must report an error.</li></ul>	Completed	1
PB03	Notification	Notification new message	Student, teacher,Censor	As an student, teacher, Censor I want to receive notifications of new messages	I can see who sent me messages and reply	Medium	<ul style="list-style-type: none"><li>- The system displays the user's notification number on the [Message] icon</li><li>- If the user wants to see the message, the system will display the message as a list</li></ul>	Completed	3
		Notification new post	Student, teacher	As an student, teacher, I want to be notification new forum activity	I can see what forum posts I am following	Medium	<ul style="list-style-type: none"><li>- The system displays the user's notification number on the [Notification] icon</li><li>- If the user wants to see the notification, the system will display the message as a list</li></ul>	Completed	3
PB04	Interactive	Comment	Student, teacher	As an student, teacher, I want to comment in post	I can give my opinion for posts	Medium	<ul style="list-style-type: none"><li>- The system displays the posts on the homepage and the forum, here there will be a comment</li><li>- User comment on the article, the user enters the comment content with the alphanumeric style and special characters.</li><li>- Show status when successfully liking or commenting a post by showing your likes and comments in the post</li></ul>	Completed	3
		Like the post	Student, teacher	As an student, teacher, I want to like the post	I can give my interest for posts	Medium	<ul style="list-style-type: none"><li>- The system displays the posts on the homepage and the forum, here there will be a like button</li><li>- User click in the button then number like increase by 1 unit, click one again the number like reduction 1 unit</li></ul>	Completed	2
PB05	Chat	View room chat	Student, teacher, censor	As an student, teacher, censor I want to view all user i was send message	I can know what user i had send message and continue send message	Hight	The system will display list room chat with username of receiver and last message was send	Completed	3
		Send message	Student, teacher, censor	As an student, teacher, censor I want to send message with other user in the system	I can communicate with other user in the system	Very hight	<ul style="list-style-type: none"><li>- The system displays a place for users to enter content to send messages</li><li>- User enters message content with alphanumeric style and special characters</li><li>- Display the status of successful message delivery to a person by displaying your own message and the opponent's response message</li></ul>	Completed	3

ID	Epic	Name User Story	Actor	I want to ..	so that ..	Priority	Acceptance criteria	Status	Sprint
PB06	Profile	Change Password	Student, teacher	As an student, teacher, censor I want to change my password	I can better protect my account	Medium	- The system displays 3 required fields to change the password - User enters a password once in the [Old Password] field with the old password being used, once in the [New Password] field with different data requirements than the old password, at least 8 characters, no blank. Once in [Password] new] with the same new password above to confirm the new password before changing. - The system will send a success message if valid. Otherwise, the system must report an error.	Completed	4
		Forgot password	Student, teacher	As an student, teacher, censor I want in case I forget my password, I can recover my password	I can continue to use my account, avoid being used by others for malicious purposes	Medium	- Correct data must be entered in the [Username] and [Email] fields - If the user enters the wrong Email, the verification code will not be received. - If user enter the correct email address and username, system will receive a new password of user account by email user	Completed	4
		Update profile	Student, teacher	As an student, teacher, I want to edit my profile	People can know right information about me	Medium	- The system displays the user's information fields, the user who wants to edit can only change the value of the fields [Email] in the format @ gmail.com, [Phone number] consisting of 10 numbers, [Address] ] in alphanumeric format and without special characters, [Gender], [Date of birth] in correct format and select [Avatar] in img format - The system will send a successful message if it is valid and display the edited information. Otherwise, the system must report an error.	Completed	4
PB07	Event	See calendar event	Student, teacher	As an student, teacher, I want to see the calendar of events	I can know what event i join in this month	Medium	- The system displays a calendar of upcoming events this month on the right side of the User's homepage - If you want to see the details of the event, you can choose to see the details of the upcoming event - user can change month will show event	Completed	4
		Join the event	Student, teacher	As an student, teacher, I want to join the evevt i care	I can see that event in my calendar	Medium	- The system shows button to join event in the post - The system displays join event successful when user click join event, If user click one again system will display leave event success	Completed	4
PB08	forum	Join the forum	Student, teacher	As an student, teacher, I want to join the forum	I can see the new activities of the group, the forum that I have joined	Medium	- The system shows button to join The forum when he wants to join The forum - The system displays successful forum participation by sending a notification to users waiting for censorship to enter The forum - If user click one again system will display leave forum success	Completed	4
PB9	Report of user	Report comment	Student, teacher	As an student, teacher, I want to report comments toxic	The censor can delete the messages toxic	Medium	- Area display system for users to report malicious comments or messages - Shows successfully sent malicious comment report if valid. Otherwise, the system must report an error.	Completed	3
		Report message	Student, teacher	As an student, teacher, I want to report messages toxic	The admin can delete the messages toxic	Medium	- Area display system for users to report malicious message - Shows successfully sent malicious message report if valid. Otherwise, the system must report an error.	Completed	3
		Report post	Student, teacher	As an student, teacher, I want to report post toxic	The censor can delete the post toxic	Medium	- Area display system for users to report malicious post - Shows successfully sent malicious post report if valid. Otherwise, the system must report an error.	Completed	3
PB10	Search	Search	Student, teacher	As an student, teacher, censor I want to search for users or forums in a website	I can get results of users, forums quickly	Medium	- The system displays the area where users enter search information to be able to search forums or users based on keywords - If no data is found, suggest approximate results to the user	Completed	4
PB11	The post or event managment	Create the post or event	Censor	As a censor, I want to post new or event in a forum	I can show other people new posts or events and make new announcements	Very hight	_ The system displays a button to create a new post for the user _ If it is a post, the user enters the information of the [Content] fields with the alphanumeric format or special characters, [Image] with IMG format _ If it is an event, the user enters the information of the fields [Event Name], [Content] with the alphanumeric format or special characters, [Event Address] with alphanumeric format, [Image] with img format, [event date] must be new and [time Of Event] fields must not be negative _ Show the status when posting the article successfully by displaying the article	Completed	1
		Modify the post or event	Censor	As a censor, I want to edit a post or event	I can keep up to date with new events and announcements in my post	Hight	_ The system displays your articles for users to edit _ If it is an article, the user enters new information in the [Content] fields with the alphanumeric format or special characters, [Image] in IMG format _ If it is an event, the user enters new information in the fields [Event Name], [Content] with the alphanumeric format or special characters, [Event Address] with the alphanumeric format , [Image] with IMG format, [event date] must be new and [time Of Event] fields must not be negative _ Show status when post update is successful by showing updated post	Completed	1

ID	Epic	Name User Story	Actor	I want to ..	so that ..	Priority	Acceptance criteria	Status	Sprint
PB12	Manage forum of censor	Censorship new members	Censor	As a censor, I want to censorship new members before joining the forum	I can control forum members, avoid fake accounts	Hight	- New members can only be moderated when you are the Censor of that forum - The system will display a list of new members waiting for censorship to enter the forum - User can accept that member join in the forum or cancel that request - The system will send a successful censorship notification if it is valid. If not, the system must report an error	Completed	2
		Delete members from the forum	Censor	As a censor, I want to remove members from the forum	I can control the forum, remove members who violate the forum's rules	Hight	- Censor of a forum can remove a member from the forum if that member is reported to violate the forum's rules. - The system will display a list of existing members in the forum - The system will send a notification of successful member deletion if valid. If not, the system must report an error - The system will send notify to the user who was removed from the forum	Completed	3
		Delete the post or event	Censor	As a censor, I want to delete a post or event of my or other user in the forum	I can delete post not right	Medium	- The system displays posts on the homepage and forum, if you want to delete a post, you can only delete your own post with the delete button displayed on the post. - If you are a moderator, you can delete posts in the forum you are managing if the post is reported. But can't delete posts in other forums - Display status when deleting post successfully if valid. Otherwise, the system must report an error. - The system will send notify to the user who was create post	Completed	3
		Censorship the new posts	Censor	As a censor, I want to censorship new posts	I can control new posts to avoid malicious, inappropriate posts before posting	Hight	- New posts can only be moderated when you are the Censor of that forum - The system will display a list of new posts waiting for censorship to post on the forum - User can accept that post will show in the forum or cancel that request - The system will send a successful censorship notification if it is valid. If not, the system must report an error - The system will send notify to the user who member of forum	Completed	2
		Delete comment	Censor	As a censor, I want to remove comments	I can delete malicious, inappropriate comments	Hight	- The system displays the comments of the posts on the homepage and the forum, if you want to delete the post's comment, you can only delete your own post comment with the delete button displayed on the post comment. - If you are a Censor, you can delete comments on posts in the forum you are managing if comments are reported. But it is not possible to delete comments on posts in other forums - Show status when comment is deleted successfully if valid. Otherwise, the system must report an error.	Completed	3
PB13	Notification of censor	Notification about content toxic	Censor	As a censor, I want to be notification of malicious content from the system or from teacher and student reports	I can delete such malicious comments	Medium	- The system displays the number of malicious comment notifications in the quick report bar in the forum - The system displays the number of malicious post notifications in the quick report bar in the forum - If Censor wants to see the message, the system will display a list of notifications about malicious comments or posst	Completed	3
		Notification the new post and member	Censor	As a censor, I want to receive new forum post and memmber notifications	I can moderation new posts before post and member before they join the forum	Medium	- The system displays the number of repuest join forum of user notifications in the quick report bar in the forum - The system displays the number of repuest post of user notifications in the quick report bar in the forum - If Censor wants to see the message, the system will display a list of notifications about new post or new member	Completed	3
PB14	Login user	Login user	Admin	As an admin, I want to log in the web	I can use the website as admin	Hight	_ Minimum password length 8 characters and no spaces _ Enter the correct username and password, then I can log into the system _ Wrong username or password or both I can't log in to the system _ I entered the wrong username or password, I want to know exactly where I went wrong _ The system will accept to allow the user to enter the system if the username and password are correct and the authority in the system is "ADMIN".	Completed	1
PB15	Account managerment	Add user account	Admin	As an admin, I want to create a new account user	I can allow a new user to be allowed to use the system	Hight	_ The system will display on the page add accounts with required fields for Admin must to enter values in the [Username] field with the format without accents and special characters, [Full name] must be correct, [Date of Birth] must be in the correct format, [Code] has only 4 numbers, [Address] has only numbers and letters and no special characters, [Phone number] is in 10 numbers format, [Email] must correct in the format @gmail.com, [Gender], select [Position], select [Role] and do not leave the required fields blank _ The system will send a successful message if it is valid and display the newly added account. Otherwise, the system must report an error. _ The system will send an email to notify about the new account was created by the admin	Completed	1
		Modify user account	Admin	As an admin, I want to edit a user account	I can correct incorrect or new information about a user	Medium	_ The system displays the existing information fields of the user, the Admin can edit and change the value of the [Username] fields with the requirement that they must not overlap with other accounts, must be correct [First and last name] name], [Date of Birth] must be in the correct format, [Code] has only 4 numbers and cannot be duplicated, [Address] has only numbers and letters and no special characters, [Phone number] in 10_digit format, [ Email] must be in @gmail.com format and not matched, [Gender], select [Position], select [Role] and leave the required fields blank _ The system will send a successful message if it is valid and display the newly updated information of the account. Otherwise, the system must report an error. _ The system will send an email to notify about the account was updated by the admin	Completed	1
		Delete user account	Admin	As an admin, I want to delete a user account so that I can delete user accounts that are no longer active from the system	I can stop allowing users to use the system	Low	_ The system displays a list of accounts on the account management page and a button to delete the account from the system. Admin choose the person you want to delete _ Show status when deleting account successfully if valid. Otherwise, the system must report an error. _ The system will send an email to notify about the account was deleted by admin	Completed	1



ID	Epic	Name User Story	Actor	I want to ..	so that ..	Priority	Acceptance criteria	Status	Sprint
PB16	Forum management of admin	Add the forum	Admin	As an admin, I want to create a forum	Everyone can join the forum they like	Very hight	- The system will display on the forum page with the required fields Admin must enter the value in the [Forum Name] field that does not exist in the system, [Forum manager] must be a non-manager any forum, [Description], select [cover image] and don't leave the required fields blank - The system confirms the valid information and allows the user to create a forum and display success. Opposite, the system must inform an error message.	Completed	2
		Modify the forum	Admin	As an admin, I want to edit the forum	I can correct incorrect or new information about the forum	Hight	- The system displays the existing information fields of the forum, Admin can edit and change the value of the [Forum ID] field with that must not be the same, [Forum name] must not be the same as the forum else in the system, [Forum Manager] must be someone who doesn't manage any forums, [Description], select [cover image] and leave the required fields blank - The system confirms the information and allows the user to update the forum and display it successfully. Otherwise, the system must report an error.	Completed	2
		Delete the forum	Admin	As an admin, I want to delete the forum	I can stop the forum of the system	Low	- The system displays a list of forums on the forum management page and a button to delete the forum from the system. Admin choose the forum you want to delete - Show status when deleting forum successfully if valid. Otherwise, the system must report an error.	Completed	2
PB17	Event or post policy management	Add event or post policy	Admin	As an admin, I want to add an event or post policy	Everyone can see upcoming events or post policy	Medium	_ The system displays the button to create a new post for the user _ If it is an article, the user enters information in the [Content] fields with the alphanumeric format or special characters, [Image] in IMG format _ If it is an event, the user enters information in the fields [Event Name], [Content] with the alphanumeric format or special characters, [Event Address] with the alphanumeric format, [Image image] with IMG format, [event date] must be new and [time Of Event] fields must not be negative _ If you are an admin, you can choose a forum to post or an event if that forum exists in the system _ Show the status when posting the article successfully by displaying the article _ The system will send a notification to the user who a member of the forum	Completed	1
		Modify event or post policy	Admin	As an admin, I want to modify the event or post policy	I can correct incorrect or new information events or post policy	Medium	_ The system displays your articles for users to edit _ If it is an article, the user enters new information in the [Content] fields with the alphanumeric format or special characters, [Image] in IMG format _ If it is an event, the user enters new information in the fields [Event Name], [Content] with the alphanumeric format or special characters, [Event Address] with the alphanumeric format, [Image] with IMG format, [event date] must be new and [time Of Event] fields must not be negative _ If you are an admin, you can choose a forum to post or an event if that forum exists in the system _ Show status when post update is successful by showing updated post	Completed	1
		Delete event or post policy	Admin	As an admin, I want to delete an event or post policy	I can delete policies , events that don't deploy or don't occur	Medium	- The system displays posts on the homepage and forum, if you want to delete a post, you can only delete your own post with the delete button displayed on the post. - Display status when deleting post successfully if valid. Otherwise, the system must report an error.	Completed	3
PB18	Get report	Report number chat toxic	Admin	As an admin, I want to see the report number chat toxic	I can get an overview of the number of malicious chats on the system	Medium	- On the dashboard page, the system processes the data and displays the total number of malicious messages in the system in the form of a graph	Completed	4
		Report number posts or member	Admin	As an admin, I want to see the report number posts and member	I can have an overview of the users and activity on the forum	Medium	- User accesses "Account Management" page or "Forum Management" page . Here it is possible, see the list of accounts in excel by clicking on the button get report - Data processing system and download excel file for computer users	Completed	4



ID	Epic	Name User Story	Actor	I want to ..	so that ..	Priority	Acceptance criteria	Status	Sprint
PB19	Manager room chat	Block chat toxic	Admin	As an admin, I want to block chat toxic from users	I can block malicious messages, annoying messages	Hight	- The system displays a list of malicious chats on the block page and the button to block the chat from the system. Admin select the chat you want to block - The system confirms the valid information and allows the user to block the chat and display success. Opposite, the system must inform an error message.	Completed	4
		Unblock chat toxic	Admin	As an admin, I want to unblock chat I had block	I can unblock chat i had block wrong	Medium	- The system displays a list of malicious chats on the unblock page and the button to unblock the chat from the system. Admin select the chat you want to unblock - The system confirms the valid information and allows the user to unblock the chat and display success. Opposite, the system must inform an error message.	Completed	4
		Notification about number report toxic	Admin	As an admin, I want to receive notification about number message toxic reported by students and teachers	I can control and block malicious messages	Medium	- The system displays the number of malicious message notifications on the notification management bar - If the Admin wants to see the notification, the system will display a list of notifications about malicious messages	Completed	4
PB20	Search	Search	Admin	As an admin I want to search for users or forums in a website	I can get results of users, forums quickly	Medium	- The system displays the area where users enter search information to be able to search forums or users based on keywords - If no data is found, suggest approximate results to the user	Completed	4