
Overview

Purpose

This "Bulletin" feature enables all BSME Members to post news or announcements that they would like to publish or announce to other members. It provides a "Bulletin Board", where all BSME Members can post news on their companies' new offerings, promotions or business opportunities, and broadcast to other users.

Content Admin role shall be able to administer BSME bulletin such as maintain bulletin, set access restriction, publish, validate and approve request for publish to public

Gold Member Admin, Silver Member Admin and Normal Member Admin roles shall be able to administer its company's bulletin such as maintain bulletin, set access restriction, publish and request for publish to public.

The Public can only view the bulletins published (after approval).

Role

The following is the role(s) that shall be using this feature:

- Content Admin
- Platinum User
- Gold Member Admin
- Silver Member Admin
- Normal Member Admin
- Gold Member User
- Silver Member User
- Normal Member User
- Non-Member (Public)

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Overview, Continued**Functional requirements**

The following is the functional requirement(s) of this feature:

Item	Functional Requirement	Role
1.	a. Enable the users to add news or announcement on their companies' offerings, promotions or business opportunities that they would like to publish to other BSME users. b. Enable the users to edit existing news which have not yet been published. c. Enable the users to delete existing news which have not yet been published. d. Able to publish the news, set publish date and broadcast to other users e. Enable the users to email the news to other parties.	<ul style="list-style-type: none"> • Content Admin
2.	Enable the users to view news published by BSME members.	
3.	Able to validate member bulletin Able to approve member bulletin to publish for public	
4.	Able to add news or announcement on their companies' offerings, promotions or business opportunities that they would like to publish to other BSME users. a. Able to edit existing news which have not yet been published b. Able to delete existing news both which have been published or not yet been published. c. Able to publish the news, set publish date and broadcast to other users d. Able to email the news to other parties.	<ul style="list-style-type: none"> • Platinum User • Gold Member Admin • Silver Member Admin
5.	Able to view news published by BSME members.	
6.	Able to set bulletin "access" restriction	
7.	Able to view publish bulletin by Customer and BSME members.	<ul style="list-style-type: none"> • Normal Member Admin • Non-Member (Public) • Gold Member User • Silver Member User • Normal Member User

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Overview, Continued

Business rules The following is the business rule(s) that this feature is to comply to:

Business Rules	Description
Public bulletin only	System only allow public to view the bulletin which is approved to be publish to public only
Auto approval	Items published by Platinum User, Gold Member Admin & Silver Member Admin will go through the "Green Lane" approval concept. Where the items can be viewed immediately by the Public. Customer will have the authority to delete the bulletin if need be.

Pre-requisite The following is the pre-requisite(s) of this feature:

- The bulletin has been approved by Content Admin role to be viewed by the Public and all BSME Members.

End result The following is the post-condition(s) of this feature:

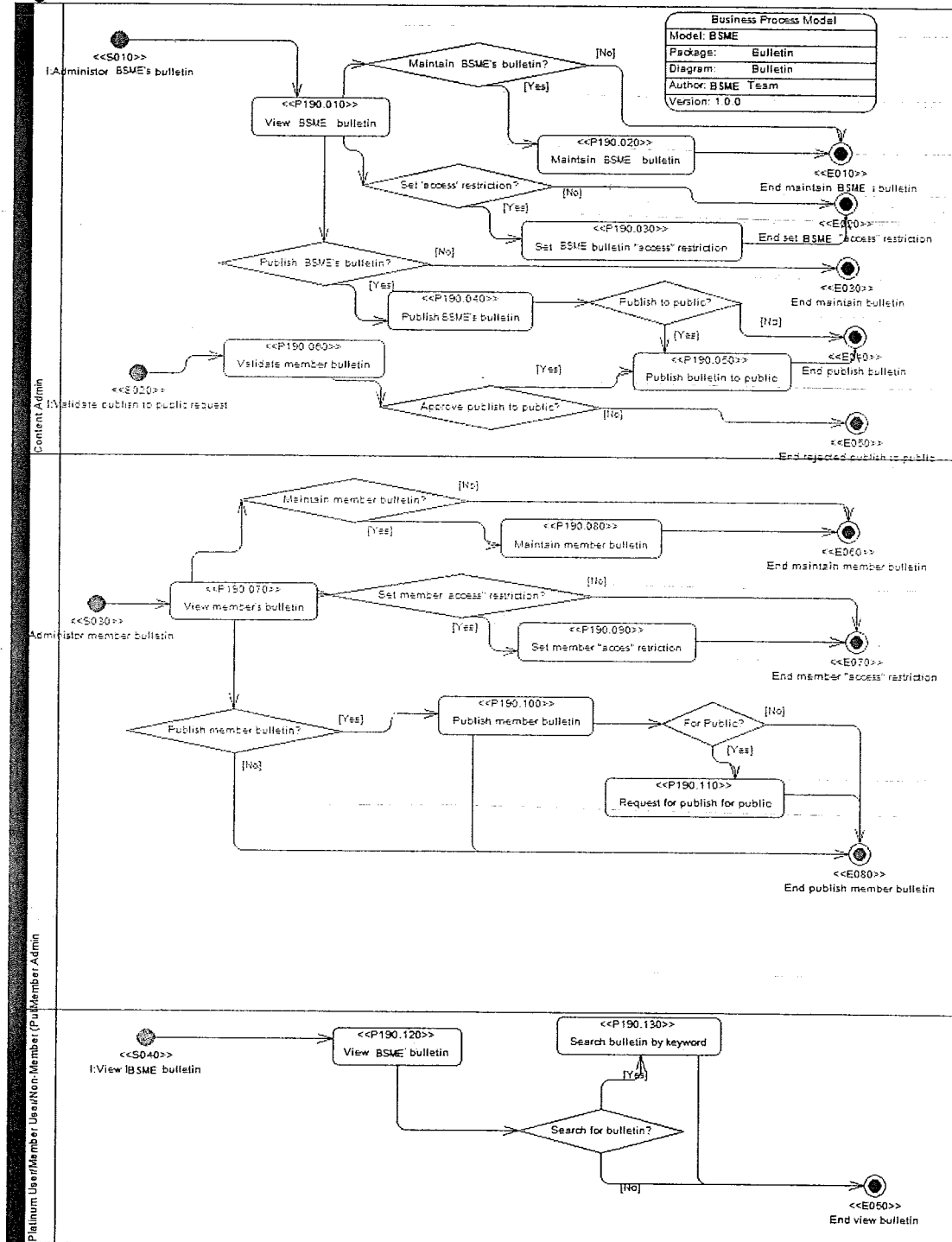
- Approved bulletins are available for the Public and all BSME Members to view.

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Overview, Continued

Business Process Diagram

Below is the Business Process Diagram that models the interactions between the role(s) with this feature.



Section K F110 Alert

Overview

Purpose

This "Alert" feature enables all BSME Members to receive alerts via pop-up notification for the new information published in BSME and enables the System Admin role to set criteria and permission for executing the following pre-packaged alerts in BSME:

- New content or information published by BSME Member (as seller) at the "Vendor Directory" feature
- New tenders that they are qualified to bid,
- New content or information on products or services being showcased at the "Product Directory" tab

In addition, all BSME Members shall receive alerts:

- Reminding to update their companies' profile

All BSME Members shall be able set on what to be alerted and received as alert upon user login. System Admin shall be able to update Alert criteria, permission, edit alert message and publish it.

Role

The following are the roles that shall be using this feature:

- Platinum User
- Gold Member Admin
- Silver Member Admin
- Normal Member Admin
- Gold Member User
- Silver Member User
- Normal Member User
- System Admin

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Overview, Continued

Functional requirements

The following is the functional requirement(s) of this feature:

Item	Functional Requirement	Role
1	Able to set alert for the following pre-packaged alerts: a. Subscription to the specific Vendor Directory to track contents of interest or whenever documents are added or modified, b. Invitation to Tender by tender issuer (i.e. subscription to the Tender Matching feature) c. Alert to Tender nearly closing data (i.e. 3 days before closing date) d. Reminder to update company profile after a certain period of time e. Reminder to the company which does not update the profile more than 1 year based on the last login	<ul style="list-style-type: none"> Platinum User Gold Member Admin Silver Member Admin Normal Member Admin Gold Member User Silver Member User Normal Member User System Admin
2	Able to receive alert notification either via application pop-up or email.	
3	Enable alerts to be displayed until user read and dismiss the alert message.	
4	Enable alerts to be displayed by category.	
5	Able to edit alert message and publish it.	<ul style="list-style-type: none"> System Admin

Business rules

The following is the business rule(s) that this feature is to comply to:

Business Rules	Description
N/A	N/A

Pre-requisite

The following is the pre-requisite(s) of this feature:

- The changes or trigger on the selected alert notification has been made.
- Predefine Alert list is created during the installation.

End result

The following is the post-condition(s) of this feature:

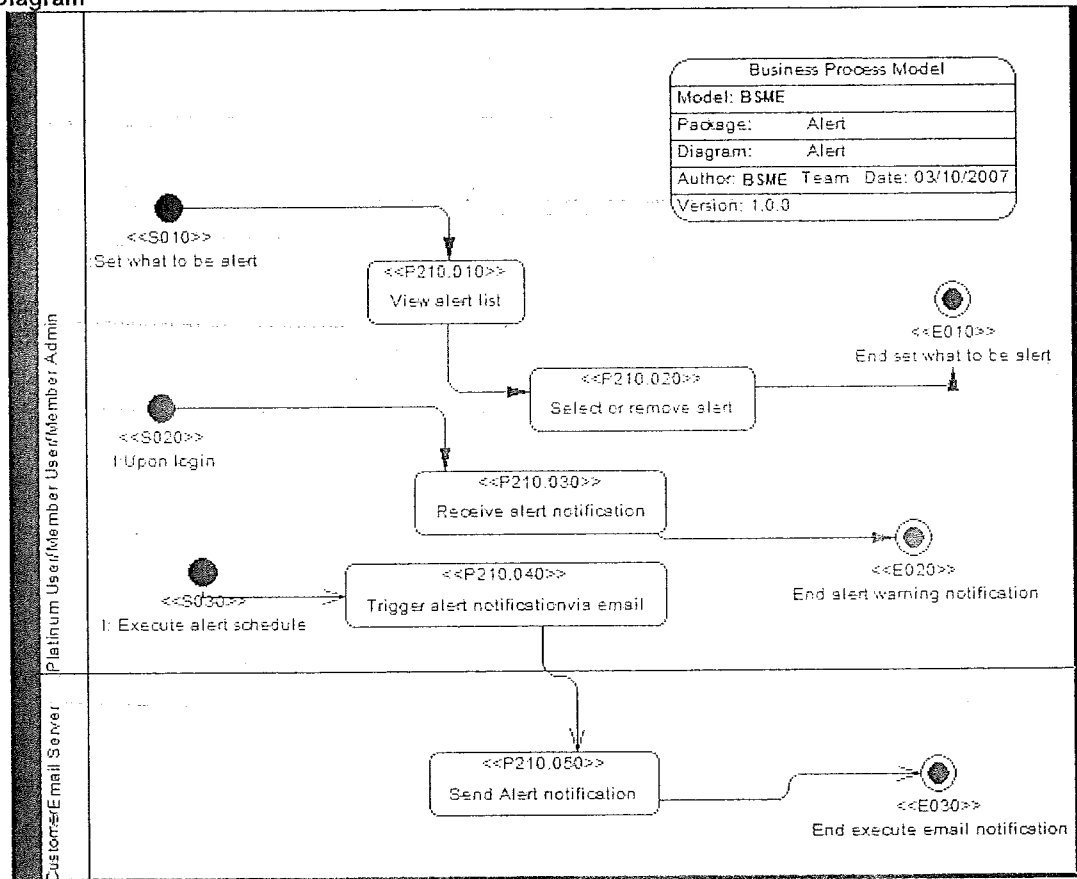
- List of the item to be alert has been set
- Other users can select their alert item.

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Overview, Continued

Business Process Diagram

Below is the Business Process Diagram that models the interactions between the role(s) with Alert feature.

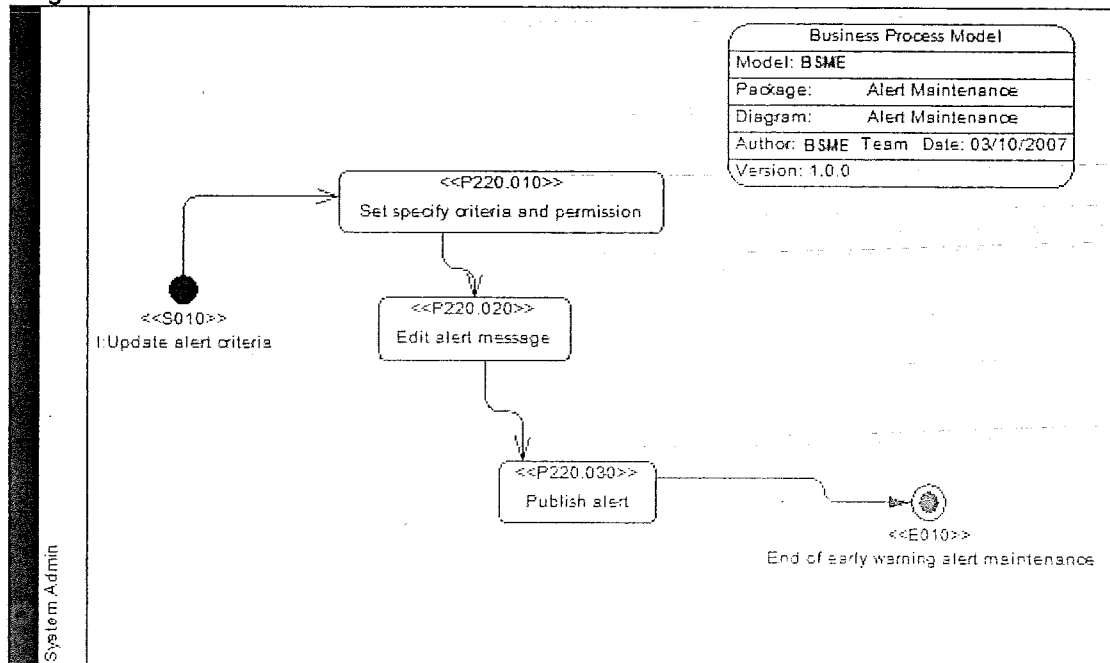


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Overview, Continued

Business Process Diagram

Below is the Business Process Diagram that models the interactions between the role(s) with Alert Maintenance feature.



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Section L F120 Mobile Web Version

Overview

Purpose

This "Mobile Web Version" feature enables all BSME Members to refer to a version of the website that is customized to be viewed through a browser using mobile devices which are smart phone, tab or iPad.

The mobile features can be experienced by all BSME Members based on their permissible access page.

This "Mobile Web Version" feature is built for iOS and Android platforms and has supported sizes for icons and splash screens with responsive design.

Role

The following are the roles that shall be using this feature:

- Platinum User
 - Gold Member Admin
 - Silver Member Admin
 - Normal Member Admin
 - Gold Member User
 - Silver Member User
 - Normal Member User
 - System Admin
 - Content Admin
-

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Overview, Continued

Functional requirements

The following is the functional requirement(s) of this feature:

Item	Functional Requirement	Role
1.	Mobile Icon is displayed on the desktop version to inform users of the availability of mobile web version	<ul style="list-style-type: none"> Platinum User Gold Member Admin Silver Member Admin Normal Member Admin Gold Member User Silver Member User Normal Member User System Admin Content Admin
2.	<p>The mobile web version displays the same contents as the desktop version unless to cater for the following limitations:</p> <ul style="list-style-type: none"> The mobile browsers have limited support of range of content as it often not supports plug-ins or scripting Some activities such as rendering web pages may become intensive, for example when processing a complex style sheets or a re-flowing pages Mobile devices usually have limited processing power which means the page rendering might take some time to load Mobile devices have limited memory available for pages and images 	
3.	The Mobile Web Version design is tailored to the size of the mobile device using responsive design	
4.	Able to scan QR code to access the mobile web version	
5.	The mobile web version has to support the 1024x768 resolution of the desktop version for optimal use	
6.	Able to access mobile devices using internet	

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Overview, Continued

Business rules The following is the business rule(s) that this feature is to comply to:

Business Rules	Description
N/A	N/A

Pre-requisite The following is the pre-requisite(s) of this feature:

- Notification of the availability of the service such as Mobile Icon must be displayed on the desktop version to inform users of the provision of mobile-friendly website

End result The following is the post-condition(s) of this feature:

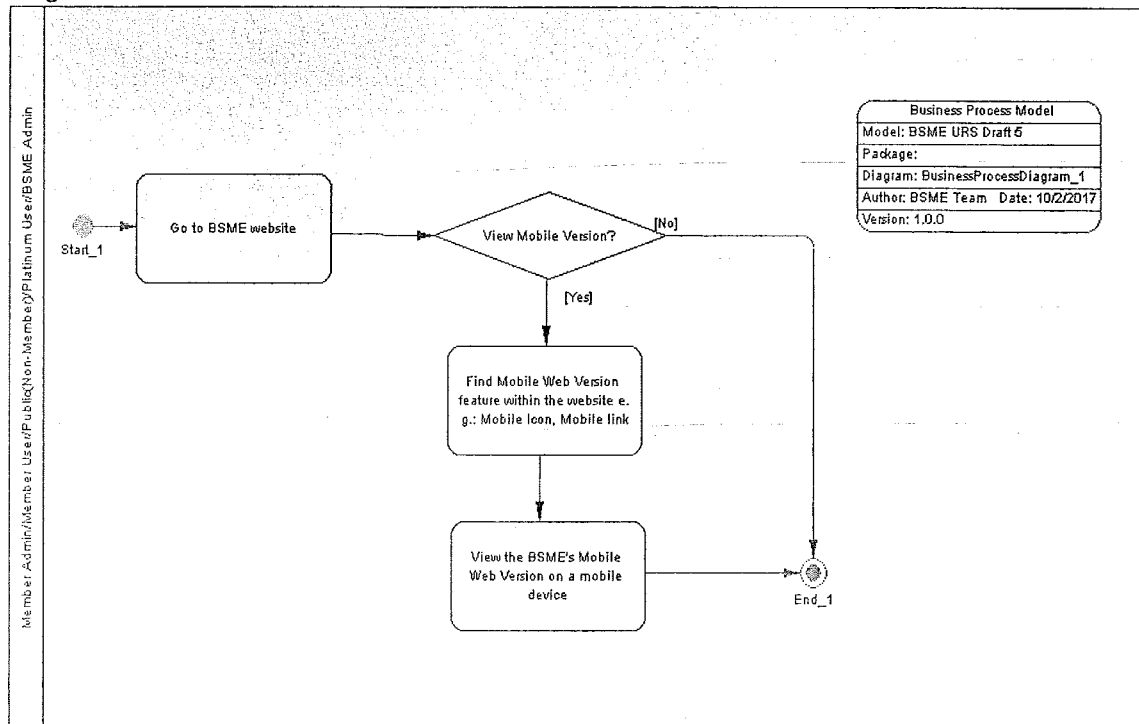
- The mobile web version design is tailored to the size of the mobile device using responsive design

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Overview, Continued

Business Process Diagram

Below is the Business Process Diagram that models the interactions between the role(s) with this feature.



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CHAPTER 4 NON-FUNCTIONAL REQUIREMENTS

Overview

About this chapter

This chapter describes the **features** that can be performed by the roles described in Chapter 2.

Each of the **features** is discussed in details as follows:

- Purpose of the feature: Provide efficient performance and secured system to the user
 - How it will act and work: Describe the non-functionalities feature will provide and the business rules it has to comply,
 - The pre-requisites that the role requires before performing the feature,
 - The end result that the role obtains after performing the feature, and
- The roles responsible to perform the feature and functionality.

The business process diagram helps to illustrate the flow of processes of the feature as well as the role responsible for a particular process.

Inside this chapter

Each of the BSME Solution features is discussed as a specific topic. This section contains the following topics.

Topic	See Page
NF010 Performance	4-2
NF020 Security	4-3
NF030 Usability	4-4

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Section A NF010 Performance

Overview

Purpose This feature measures attributes such as the time consumption and resource utilisation behaviour of any system under test. This is to simulate Business Process under performance situation.

Role The following is the role(s) that shall be using this feature:

- All users

Non-Functional requirements The following is the non-functional requirement(s) of this feature:

Item	Non-Functional Requirement	Role
1.	Maximum average response time: 60 seconds.	All users
2.	Maximum average response time under heavy processor utilisation: 120 seconds.	
3.	Minimum average throughput is 0.1 hit rates per second.	
4.	Capacity The minimum level of "Maximum transmission capacity measured in maximum system load environment (MB)" is Maximum total Byte Transferred = 25MB	

These requirements are applicable for major functions such as Online Member Application, Products/Services Registration, Products/Services Matching and Tender Matching.

Business rules The following is the business rule(s) that this feature is to comply to:

Business Rules	Description
N/A	N/A

Pre-requisite The following is the pre-requisite(s) of this feature:

- The test environment is ready and stable for test execution
- Data is ready

End Result The following is the post-condition(s) of this feature:

- System shall be executed and response less than 60 seconds for normal use
- System shall be executed and response less than 120 seconds under heavy processor utilization
- System should allow maximum of 25MB files being uploaded

Section M NF020 Security

Overview

Purpose This feature enables to prevent loss of sensitive and important data and to prevent leak of secure output information.

Role The following are the roles that shall be using this feature:

- System Admin
- All users

Non-Functional requirements The following is the non-functional requirement(s) of this feature:

Item	Non-Functional Requirement	Role
1.	Able to identify either the password is encrypted and decrypted by using tools	• System Admin
2.	Password is hardcoded when it is entered	• All users
3.	Password should not be stored in cookies	
4.	Sensitive fields like password and credit card information should not have auto complete enabled	
5.	Able to limit pass authentication by 3 attempts	

Business rules The following is the business rule(s) that this feature is to comply to:

Business Rules	Description
System does not allow Member Admin to delete own User ID and Password.	Member Admin can delete other's User ID but not its own.

Pre-requisite The following is the pre-requisite(s) of this feature:

- Users must be registered as a member into BSME application
- The users have received their login user id and password via email.

End result The following is the post-condition(s) of this feature:

- Password is encrypted prior to login process (Back-end)
- Important data and information are secured

Section M NF020 Security

Overview

Purpose This feature enables to prevent loss of sensitive and important data and to prevent leak of secure output information.

Role The following are the roles that shall be using this feature:

- System Admin
- All users

Non-Functional requirements The following is the non-functional requirement(s) of this feature:

Item	Non-Functional Requirement	Role
1.	Able to identify either the password is encrypted and decrypted by using tools	• System Admin
2.	Password is hardcoded when it is entered	• All users
3.	Password should not be stored in cookies	
4.	Sensitive fields like password and credit card information should not have auto complete enabled	
5.	Able to limit pass authentication by 3 attempts	

Business rules The following is the business rule(s) that this feature is to comply to:

Business Rules	Description
System does not allow Member Admin to delete own User ID and Password.	Member Admin can delete other's User ID but not its own.

Pre-requisite The following is the pre-requisite(s) of this feature:

- Users must be registered as a member into BSME application
- The users have received their login user id and password via email.

End result The following is the post-condition(s) of this feature:

- Password is encrypted prior to login process (Back-end)
- Important data and information are secured

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Overview, Continued

Pre-requisite The following is the pre-requisite(s) of this feature:

- N/A

All mandatory field for Company Profile Information:

Attribute	Description
Company / Organizational name	The name of the company.
Industry Focus (M)	One (1) company can have many Industry focus.
Competency(M)	One (1) company can have many technology focus/competency

End Result The following is the post-condition(s) of this feature for:

- System is representable and attractive
- Content is adhered to usability standards
