Université Ibn Zohr AGADIR Faculté des Sciences



Pour l'obtention de la Licence en Sciences Mathématiques et Informatique

SAHEM: Documentation

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Chapter 1

Business Objective

1.1 What

Provide a platform for crowdfunding startups, Ideas and projects.

1.2 How

Developing and implementing a crossplatform web application.

1.3 Why

Resulting to an international reach for Ideas owners and inovators to share and start with their projects.

Chapter 2

Technologies

2.1 Frontend	
2.1.1 Native vs Webview	
Native	
Webview	
2.1.2 Cross Platform vs Platform Independent	
Cross Platform	
Pros	
Cons	
Platform Independent	
Pros	
Cons	
2.2 Backend	
2.2.1 NodeJs vs PHP vs J2EE	
NodeJs	
Pros	
Cons	

PHP

Pros

Cons

J2EE

Pros

Cons

Chapter 3

Problem Space

Introduction

3.1 Actors

3.1.1 A1-User

Actor Type	and	Stereot	ype:
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direct, abstract.

Actor Description:

This is an abstract actor representing all the types of users intereacting with SAHEM System.

He will be having the ability to see a list of projects with the permession to only see the description of the projects displayed in our web application. Can Register, Login, Forgot Password. Can share links to social media.

Actor Relationship:

This Actor is specialized into A2-Visitor, A3-Registred, A5-Administrator, A6-Reviewer.

Interface Specification:

Author and History:

Taha Bouhsine.

3.1.2 A2-Visitor

Actor Type and Stereotype:
secondary, direct, Concrete.
Actor Description:
Derived from A1-User, this actor will have a more specialized way of listing projects, will only have the abilit
to look to the project name, owner, description.
Actor Relationship:
This Actor is derived from A1-User.
Interface Specification:
Author and History:
Reference Material:

3.1.3 A3-Registred User

Actor Type and Stereotype:

primary, direct, Concrete.

Actor Description:

This is the main benifitor from our system, derived from the A1-User, this actor will be intereacting with the system by adding a project, editing, deleting owned projects, funding a project.

List all the projects and their details, the same as for the A2-visitor but can have the access to more information about the project.

Up voting a project that he thinks should be funded by others.

Have a wallet that will be linked to the Payment interface.

can comment, contribute.

Can follow other registred users, follow the progress of projects.

Have an activity feed that will be showing all the posts from other users in the system.

Actor Relationship:

This Actor is derived from A1-User.

Interface Specification:

Author and History:

Taha Boushine

Actor Type and Stereotype:
secondary, direct, Concrete.
Actor Description:
This is user have the most permession in our system, have the access to everything and can do everything, derived from A3-Registred User. Accept, Delete, Ban Users etc
Actor Relationship:
This Actor is derived from A3-User.
Interface Specification:
Author and History:
BOUHISNE Taha
Reference Material:
3.1.5 A6-SahemSystem
Actor Type and Stereotype:
Actor Description:
Actor Relationship:
Interface Specification:
Author and History:
Reference Material:

3.1.4 A5-Administrator:

3.1.6 A7-Payment Interface Actor Type and Stereotype: Actor Description: Actor Relationship: The interface that will handle every aspects of the user payments, either recharging his account or withdrawing budget after his project it's goal. Interface Specification: Author and History: BOUHSINE Taha

3.1.7 A8-Project

Actor Type and Stereotype:

Actor Description:

A project that can be owned by one A3-RegistredUser, and can be either funded or voted on by other users of the same type as A3-RegistredUser. can be funded by a registred user.

have a coment section.

have a vote counter.

have a contributer list that contains all the users that funded the project.

Actor Relationship:

Owned by the A3-RegistredUser that can have one or many projects.

Interface Specification:

Author and History:

BOUHSINE Taha

3.1.8 A9-Post

Actor Type and Stereotype:

«Business» «RegistredUser»

Actor Description:

A post owned by one A3-RegistredUser, up or down voted or commented on by other users of the same type as A3-RegistredUser. can be funded by a registred user.

have a coment section.

have a vote counter.

have a contributer list that contains all the users that funded the project.

Actor Relationship:

Owned by the A3-RegistredUser that can have one or many Posts.

Interface Specification:

Author and History:

BOUHSINE Taha

3.2 Use Cases Simplified

3.2.1 UC1-Register

Use Case Thumbnail:

UC1-Register

Actors:
A1-User
Use Case Description:
This is use case will handle the user registering request.
3.2.2 UC2-Login
Use Case Thumbnail:
UC2-Login
Actors:
A1-Visitor
Use Case Description:
This is use case will handle the user log in request.
3.2.3 UC3-ForgotPassword
Use Case Thumbnail:
UC3-ForgotPassword
Actors:
A1-User
Use Case Description:
This is use case will handle the user's reseting password request.

3.2.4 UC4-ShareToSocialMedia

Use Case Thumbnail:

UC4-ShareToSocialMedia
Actors:
A1-User
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.5 UC5-CreateProject
Use Case Thumbnail:
UC5-CreateProject
Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.6 UC6-EditProject
Use Case Thumbnail:
UC6-EditProject
Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.7 UC7-DeleteProject
Use Case Thumbnail:
UC7-DeleteProject

Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.8 UC8-FundProject
Use Case Thumbnail:
UC8-FundProject
Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.9 UC10-VoteOnProject
Use Case Thumbnail:
UC10-VoteOnProject
Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.10 UC11-CommentOnProject
Use Case Thumbnail:
UC11-CommentOnProject
Actors:
A3-RegistredUser

Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.11 UC12-FollowUser
Use Case Thumbnail:
UC12-FollowUser
Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.12 UC13-GetAllFollowedUserPosts
5.2.12 UC15-GetAliFollowedUserFosts
Use Case Thumbnail:
UC13-PostToActivityFeed
Actors:
A3-RegistredUser
Use Case Description:
This is use case will handle the act of a user sharing a project or user profile link.
3.2.13 UC14-PostToActivityFeed
,
Use Case Thumbnail:
UC13-PostToActivityFeed
Actors:

This is use case will handle the act of a user sharing a project or user profile link.

A3-RegistredUser

Use Case Description:

3.2.14 UC15-CommentOnUserPost

Use Case Thumbnail:	
UC15-CommentOnUserPost	
Actors:	
A3-RegistredUser	
Use Case Description:	
This is use case will handle the act of a user sharing a project or user profile link.	
3.2.15 UC16-VoteOnUserPost	
Use Case Thumbnail:	
UC16-VoteOnUserPost	
Actors:	
A3-RegistredUser	
Use Case Description:	
This is use case will handle the act of a user sharing a project or user profile link.	
3.3 Use Cases	
3.3.1 UC1-Register	
Use Case Thumbnail:	
UC1-Register	
Use Case Description:	
A request from a A2-Visitor to register in the application.	
Use Case Stereotype and Package:	
« Business » - « User »	
Preconditions:	
Not registred	

Postcondition:
Registred
Actors:
A2-Visitor
Use Case Relationships:
Associated with actors A2-Visitor,
Basic Flow:
1-The visitor will click on the register button. 2-Fill the personal information form. 2.1- the system will check if the information are valid.
3-Fill the payments method form. 3.1- the system will check if the information are valid. 4-Confirm Email. 5-System will save the user's information. 6-System will confirm the users's registration. 7-redirect the User to the sign in form.
Alternative Flow:
< -Informations are not valid/complete. >
Exceptions:
None
Constraints:
None
User Interface Specification:
Metrics:
medium
Priority:
High
Status:
Minor

Author and History:
Taha Bouhsine
Reference Material:
3.3.2 UC2-Login
Use Case Thumbnail:
UC2-Login
Use Case Description:
A request from a A2-Visitor to register in the application.
Use Case Stereotype and Package:
« Business » - « Visitor »
Preconditions:
Loged out
Postcondition:
Loged in.
Actors:
A2-Visitor
Use Case Relationships:
Associated with actors A2-Visitor,
Basic Flow:
1-The visitor will click on the Login button. 2-Fill the username and password form. 2.1- the system will check if the information are valid. 3-System will log the user's Session. 7-redirect the User to the main page.

Alternative Flow:

 ${\tt < -Informations}$ are not valid/complete. >

Exceptions:				
None				
Constraints:				
None				
User Interface Specification:				
Metrics:				
simple				
Priority:				
High				
Status:				
Minor				
Author and History:				
Taha Bouhsine				
Reference Material:				
3.3.3 UC3-ForgotPassword				
Use Case Thumbnail:				
UC3-ForgotPassword				
Use Case Description:				
Use Case Description: A request from a A2-Visitor to reset the passwod.				
-				
A request from a A2-Visitor to reset the passwod.				

Old Password

Postcondition:
New Password
Actors:
A2-Visitor
Use Case Relationships:
Associated with actors A2-Visitor,
Basic Flow:
1-The visitor will click on the Forgot Password button. 2-Fill the Email and UserName form. 2.1- the system will check if the information are valid. 2.2- The System will send an reset email to the User Email. 3- the user will click on the link. 7- the user will fill the form with the new email. 7.1- check if the password is valid. 8- the user will be redirected to the login page.
Alternative Flow:
< -Informations are not valid/complete. >
Exceptions:
None
Constraints:
None
User Interface Specification:
Metrics:
simple
Priority:
High
Status:
Minor

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Author	anu	THISTOR	v

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