Université Ibn Zohr AGADIR Faculté des Sciences



SAHEM: Documentation

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Chapter 1

Business Objective

Introduction

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 innovators to share and start with their projects.

Chapter 2

Tools

2.1

Technologies

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Cons	
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Pros	
Cons	
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Chapter 3

Problem Space

Introduction

3.1 Actors

3.1.1 A1-User

Actor Type and Stereotype:

direct, abstract.

Actor Description:

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

He will be having the ability to see a list of projects with the permission 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-Registered, A5-Administrator, A6-Reviewer.

Interface Specification:

Author and History:

BOUSHINE Taha

Reference Material:

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-Registered User

Actor Type and Stereotype:

primary, direct, Concrete.

Actor Description:

This is the main benefactor from our system, derived from the A1-User, this actor will be interacting 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 registered 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:

BOUHSINE Taha

Reference Material:

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

3.1.4 A5-Administrator:

3.1.5 A6-SahemSystem

Actor Type and Stereotype:
« System » « Business »
Actor Description:
A non human actor that represents our system.
Actor Relationship:
Interface Specification:
Author and History:
BOUHSINE Taha
Reference Material:

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

3.1.6 A7-Payment Interface

3.1.7 A8-Project

Actor Type and Stereotype:

Actor Description:

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

have a comment section.

have a vote counter.

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

have a progress feed that contains zero or many posts.

Actor Relationship:

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

Interface Specification:

Author and History:

BOUHSINE Taha

Reference Material:

3.1.8 A9-Post

Actor	Type	and	Stereo	type:
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«Business» « Post »

Actor Description:

A post owned by one A3-RegisteredUser, up or down voted or commented on by other users of the same type as A3-RegisteredUser. have a comment section.

have a vote counter.

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

Actor Relationship:

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

Interface Specification:

Author and History:

BOUHSINE Taha

Reference Material:

3.1.9 A10-Wallet

Actor Type and Stereotype:

«Business» «RegisteredUser»
Actor Description:
A wallet that holds money.
Actor Relationship:
An A3-RegisteredUser have a wallet.
A project have a wallet.
Interface Specification:
Author and History:
BOUHSINE Taha
Reference Material:

3.2 Use Cases Simplified

3.2.1 UC1-Register

Use Case Thumbnail:

UC1-Register

Actors:

A1-User A2-Visitor

A3-SahemSystem
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-User
A2-Visitor
A3-SahemSystem
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
A2-Visitor
A3-SahemSystem

3.2.4 UC4-ShareToSocialMedia
Use Case Thumbnail:
UC4-ShareToSocialMedia
Actors:
A1-User
A2-Visitor
A3-SahemSystem
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-RegisteredUser
A3-SahemSystem
Use Case Description:
This use case will handle the act of a registered user creating a project.
3.2.6 UC6-EditProject
Use Case Thumbnail:
UC6-EditProject
Actors:
A3-RegisteredUser
A3-SahemSystem

Use Case Description:

This is use case will handle the user's resetting password request.

Use Case Description:
This use case will handle the act of a registered user editing his existing project.
3.2.7 UC7-DeleteProject
Use Case Thumbnail:
UC7-DeleteProject
Actors:
A3-RegisteredUser
A3-SahemSystem
Use Case Description:
This use case will handle the act of a registered user deleting his project after entering the edit menu.
3.2.8 UC8-FundProject
3.2.8 UC8-FundProject Use Case Thumbnail:
Use Case Thumbnail:
Use Case Thumbnail: UC8-FundProject
Use Case Thumbnail: UC8-FundProject Actors:
Use Case Thumbnail: UC8-FundProject Actors: A3-RegisteredUser
Use Case Thumbnail: UC8-FundProject Actors: A3-RegisteredUser A3-SahemSystem
Use Case Thumbnail: UC8-FundProject Actors: A3-RegisteredUser A3-SahemSystem Use Case Description:
Use Case Thumbnail: UC8-FundProject Actors: A3-RegisteredUser A3-SahemSystem Use Case Description: This use case will handle the act of a registered user funding a project.
Uca-FundProject Actors: A3-RegisteredUser A3-SahemSystem Use Case Description: This use case will handle the act of a registered user funding a project. 3.2.9 UC10-VoteOnProject

Actors:

A3-RegisteredUser A3-SahemSystem

Use Case Description:
This use case will handle the act of a registered user voting on a project.
3.2.10 UC11-CommentOnProject
Use Case Thumbnail:
UC11-CommentOnProject
Actors:
A3-RegisteredUser
A3-SahemSystem
Use Case Description:
This use case will handle the act of a registered user voting on a project
3.2.11 UC12-FollowUser
Use Case Thumbnail:
UC12-FollowUser
Actors:
A3-RegisteredUser
A3-SahemSystem
Use Case Description:
This use case will handle the act of a registered user following another registered user.
3.2.12 UC13-ViewAcivityFeed
Use Case Thumbnail:
UC13-ViewAcivityFeed
Actors:
A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user getting all the posts published by other registered users or projects.

3.2.13 UC14-CreatePost

UC17-CommentOnPost

Use Case Thumbnail:
UC14-CreatePost
Actors:
A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user publishing a post.
3.2.14 UC15-EditPost
Use Case Thumbnail:
UC15-EditPost
Actors:
A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user editing his own post.
3.2.15 UC16-DeletePost
Use Case Thumbnail:
UC16-DeletePost
Actors:
A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user deleting his post.
3.2.16 UC17-CommentOnPost
Use Case Thumbnail:

A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user Commenting on a post.
3.2.17 UC18-EditComment
Use Case Thumbnail:
UC18-EditComment
Actors:
A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user editing a comment.
3.2.18 UC19-DeleteComment
Use Case Thumbnail:
UC19-DeleteComment
Actors:
A3-RegisteredUser
Use Case Description:
This is use case will handle the act of a registered user deleting a comment.
3.2.19 UC20-VoteOnUserPost
Use Case Thumbnail:
UC16-VoteOnUserPost
Actors:
A3-RegisteredUser

Actors:

Use Case Description:
This is use case will handle the act of a registered user voting on a post.
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 registered
Postcondition:
Registered
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

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:
<pre>< -information's are not valid/complete. ></pre>
Exceptions:
None
Constraints:
None
User Interface Specification:
Metrics:
medium
Priority:
High
Status:
Minor
Author and History:
BOUHSINE Taha
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:
Logged out
Postcondition:
Logged 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:
<pre>< -information's are not valid/complete. ></pre>
Exceptions:
None
Constraints:
None
User Interface Specification:
Metrics:
simple
Priority:
High
Status:
Minor

Author and History:
BOUHSINE Taha
Reference Material:
3.3.3 UC3-ForgotPassword
Use Case Thumbnail:
UC3-ForgotPassword
Use Case Description:
A request from a A2-Visitor to reset the password.
Use Case Stereotype and Package:
« Business » - « Visitor »
Preconditions:
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:

 ${\tt <}$ -information's are not valid/complete. >

Exceptions:
None
Constraints:
None
User Interface Specification:
Metrics:
simple
Priority:
High
Status:
Minor
Author and History:
BOUHSINE Taha
Reference Material: