Université Ibn Zohr AGADIR Faculté des Sciences



SAHEM: Documentation

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Contents

1	Bus	siness O	bjective	1
	1.1	What		1
	1.2	How		1
	1.3	Why		1
2	Tec	hnolog	ies	2
	2.1	Tools		2
		2.1.1	Github	2
		2.1.2	PlantUml	2
		2.1.3	Latex	2
		2.1.4	Vs Code	2
		2.1.5	Photoshop	2
	2.2	Fronte	nd	2
		2.2.1	Native vs Webview	2
		2.2.2	Cross Platform vs Platform Independent	2
		2.2.3	Angular	3
		2.2.4	NativeScript	3
	2.3	Backe	nd	3
		2.3.1	NodeJs vs PHP vs J2EE	3
		2.3.2	ExpressJs	3
	2.4	DataB	ase Server	3
		2.4.1	MongoDB	3
3	Prol	blem Sp	vace	4
	3.1	Actors		5
		211	A1 Hear	_

	3.1.2	A2-Visitor	6
	3.1.3	A3-Fundraiser	7
	3.1.4	A5-Administrator:	8
	3.1.5	A6-SahemSystem	9
	3.1.6	A7-Payment Interface	10
	3.1.7	A8-Project	11
	3.1.8	A9-Post	12
	3.1.9	A10-Wallet	13
3.2	Use Ca	ses Simplified	14
	3.2.1	UC1-Register	14
	3.2.2	UC2-Login	14
	3.2.3	UC3-ForgotPassword	14
	3.2.4	UC4-ShareToSocialMedia	15
	3.2.5	UC5-CreateProject	15
	3.2.6	UC6-EditProject	15
	3.2.7	UC7-DeleteProject	16
	3.2.8	UC8-FundProject	16
	3.2.9	UC10-VoteOnProject	16
	3.2.10	UC11-CommentOnProject	17
	3.2.11	UC12-FollowUser	17
	3.2.12	UC13-ViewAcivityFeed	17
	3.2.13	UC14-CreatePost	18
	3.2.14	UC15-EditPost	18
	3.2.15	UC16-DeletePost	18
	3.2.16	UC17-CommentOnPost	18
	3.2.17	UC18-EditComment	19
	3.2.18	UC19-DeleteComment	19
	3.2.19	UC20-VoteOnPost	19
	3.2.20	UC21-UpdatePassword	20
	3.2.21	UC22-UpdateEmail	20
	3.2.22	UC23-UpdatePersonalInformation	20
	3.2.23	UC24-VoteOn	21
	3 2 24	LIC25_SharaPoet	21

	3.2.25	UC26-ShareProject	21
	3.2.26	UC27-VoteOnComment	21
	3.2.27	UC28-ReportComment	22
	3.2.28	UC29-ReportPost	22
	3.2.29	UC30-ReportProject	22
	3.2.30	UC31-PayFunds	23
	3.2.31	UC32-FillCreditCardInfo	23
	3.2.32	UC33-ChoseAmount	23
	3.2.33	UC34-ConfirmPayments	24
3.3	Use C	ases	24
	3.3.1	UC1-Register	24
	3.3.2	UC2-Login	26
	3.3.3	UC3-ForgotPassword	27

List of Figures

List of Tables

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

Technologies

2.1	Tools
2.1.1	Github
2.1.2	PlantUml
2.1.3 l	Latex
2.1.4	Vs Code
2.1.5 l	Photoshop
2.2 F	rontend
2.2.1	Native vs Webview
Native	
Webview	7
2.2.2	Cross Platform vs Platform Independent
Cross Pla	atform
Pros	
Cons	
Platform	n Independent
Pros	
Cons	

2.2.3	Angular
2.2.4	NativeScript
2.3	Backend
2.3.1	NodeJs vs PHP vs J2EE
NodeJ	S
Pros	
Cons	
PHP	
Pros	
Cons	
J2EE	
Pros	
Cons	
2.3.2	ExpressJs
2.4	DataBase Server
2.4.1	MongoDB

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-Fundraiser, 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-Fundraiser

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. Update personal information.

Update email.

update Password.

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-Fundraiser. 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-Fundraiser, and can be either funded or voted on by other users of the same type as A3-Fundraiser. 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-Fundraiser that can have one or many projects.

Interface Specification:

Author and History:

BOUHSINE Taha

Reference Material:

3.1.8 A9-Post

Actor	Type	and	Stereotype:
-------	------	-----	--------------------

«Business» « Post »

Actor Description:

A post owned by one A3-Fundraiser, up or down voted or commented on by other users of the same type as A3-Fundraiser, 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-Fundraiser 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» «Fundraiser»
Actor Description:
A wallet that holds money.
Actor Relationship:
An A3-Fundraiser 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

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-Fundraiser
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-Fundraiser
A3-SahemSystem

Use Case Description:

3.2.4 UC4-ShareToSocialMedia

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-Fundraiser
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-Fundraiser
Use Case Thumbnail: UC8-FundProject Actors: A3-Fundraiser A3-SahemSystem
Use Case Thumbnail: UC8-FundProject Actors: A3-Fundraiser A3-SahemSystem Use Case Description:
USe Case Thumbnail: UC8-FundProject Actors: A3-Fundraiser A3-SahemSystem Use Case Description: This use case will handle the act of a registered user funding a project.

Actors:

A3-Fundraiser 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-Fundraiser
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-Fundraiser
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-Fundraiser
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-Fundraiser
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-Fundraiser
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-Fundraiser
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-Fundraiser
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-Fundraiser
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-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user deleting a comment.
3.2.19 UC20-VoteOnPost
Use Case Thumbnail:
UC16-VoteOnUserPost
Actors:
A3-Fundraiser

Actors:

Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.20 UC21-UpdatePassword
Use Case Thumbnail:
UC21-UpdatePassword
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.21 UC22-UpdateEmail
Use Case Thumbnail:
UC22-UpdateEmail
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.22 UC23-UpdatePersonalInformation
Use Case Thumbnail:
UC23-UpdatePersonalInformation
Actors:
A3-Fundraiser

This is use case will handle the act of a registered user voting on a post.

Use Case Description:

3.2.23 UC24-VoteOn

Use Case Thumbnail:

UC27-VoteOnComment

Use Case Thumbnail:
UC23-UpdatePersonalInformation
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.24 UC25-SharePost
Use Case Thumbnail:
UC15-EditPost
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user editing his own post.
3.2.25 UC26-ShareProject
Use Case Thumbnail:
UC15-EditPost
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user editing his own post.
3.2.26 UC27-VoteOnComment

Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.27 UC28-ReportComment
Use Case Thumbnail:
UC28-ReportComment
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.28 UC29-ReportPost
Use Case Thumbnail:
UC28-ReportPost
Actors:
A3-Fundraiser
Use Case Description:
This is use case will handle the act of a registered user voting on a post.
3.2.29 UC30-ReportProject
Use Case Thumbnail:
UC30-ReportProject
Actors:
A3-Fundraiser

Use Case Thumbnail: UC31-PayFunds **Actors:** A3-Fundraiser A7-PaymentInterface A8-Project **Use Case Description:** This is use case will handle the act of a registered user voting on a post. 3.2.31 UC32-FillCreditCardInfo **Use Case Thumbnail:** UC32-FillCreditCardInfo **Actors:** A3-Fundraiser A7-PaymentInterface **Use Case Description:** This is use case will handle the act of a registered user voting on a post. 3.2.32 UC33-ChoseAmount **Use Case Thumbnail:** UC33-ChoseAmount **Actors:** A3-Fundraiser A7-PaymentInterface

This is use case will handle the act of a registered user voting on a post.

Use Case Description:

3.2.30 UC31-PayFunds

Use Case Thumbnail:
UC34-ConfirmPayments
Actors:
A3-Fundraiser A7-PaymentInterface
717 Taymentimeerace
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:

This is use case will handle the act of a registered user voting on a post.

Use Case Description:

A2-Visitor

3.2.33 UC34-ConfirmPayments

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

Use Case Relationships:

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:
< -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:
3.3.3 UC3-ForgotPassword
Use Case Thumbnail:
UC3-ForgotPassword
UC3-ForgotPassword Use Case Description:
Use Case Description:
Use Case Description: A request from a A2-Visitor to reset the password.
Use Case Description: A request from a A2-Visitor to reset the password. Use Case Stereotype and Package:
Use Case Description: A request from a A2-Visitor to reset the password. Use Case Stereotype and Package: « Business » - « Visitor »

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:
<pre>< -information's are not valid/complete. ></pre>
Exceptions:
None
Constraints:
None
User Interface Specification:
Metrics:
simple
Priority:
High
Status:
Minor
Author and History:
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Reference Material