ENTREGA 2 INGENIERÍA DE REQUISITOS

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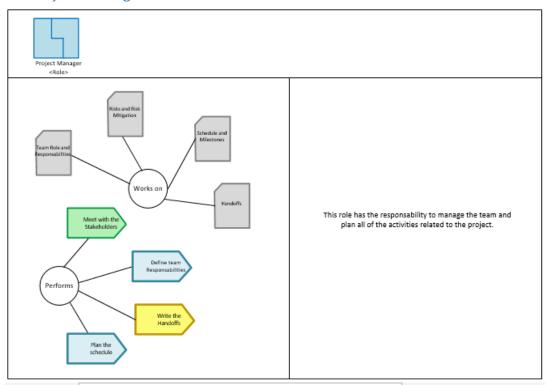


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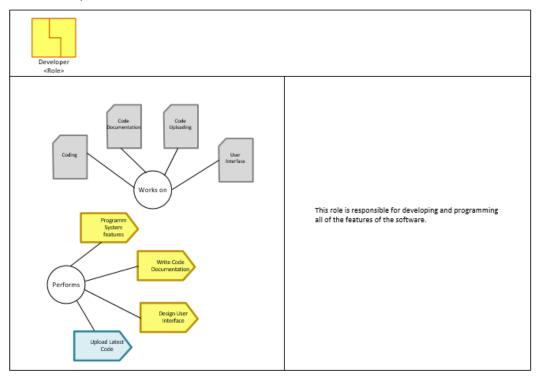
Project plan

Team Roles and Responsibilities

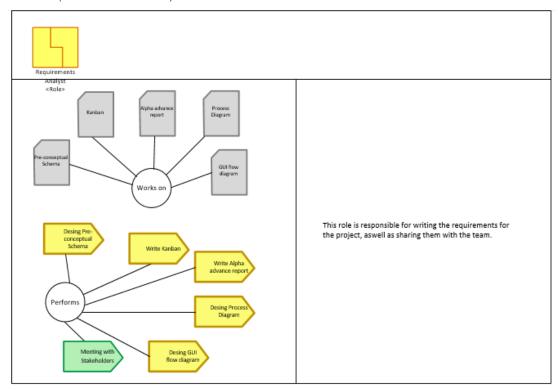
Project Manager



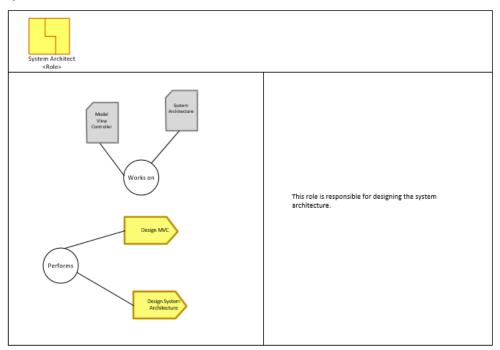
Developer



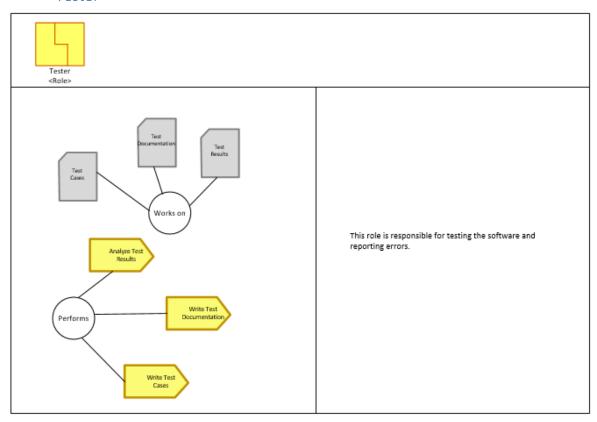
• Requirements Analyst



• System Architect



Tester



Risks and Risk Mitigation

ŧ	Risk name	Risk description	Source	Causes	Riskrate	Consequences
R01	Loss of key staff	Staff can cancel their subscription to this course.	Students	Lack of motivation. Bad grades on the first weeks of the semester. Lack of the required time.	Q=4 L=3 RR=High	Delays in the project. Tasks without owner (responsible)
R02	Poor communication with partners	The quality of the communication between team members can affect negatively the project.	Workteam	Indifference to the work of others. Lack of understanting of the whole project.	Q=4 L=4 RR=Very High	Delays in the project. Failure to stick to the schedule. Conflicts between team mates.
R03	Language barrier	The english and technical skills of each team can difficult the communication with the others	Distributed teams	Differences in english and technical skills. Unability to communicate in english or technical details of the project.	Q=3 L=3 RR=Medium	Unclear handoffs.
R04	Bad distribution of the tasks	The tasks are not distributed properly	Project manager	Lack of understanting of the task descriptions	Q=2 L=3 RR=Low	Stress, frustration, lack of motivation.
R05	Schedule flaws	The team has problems planning tasks and assigning the duration of each of them	Workteam	Lack scheduling and time planning skills	Q=3 L=3 RR=Medium	Delays in the project. Confusion about the tasks order and duration.
R06	Misunderstading of requirements	The team doesn't clearly understand the requirements	Requirements Analyst. Stakeholders	Not enough meetings with the stakeholders. The stakeholders are not clear about the requirements. Requirements analyst didn't do a satisfactory work	Q=4 L=4 RR=Very High	Delays in the project. Emergence of extra work and futility of some of the work already done.
R07	Change of requirements	Requirements change along the project	Stakeholders.	Market changes. New ideas appear during the development process.	Q=4 L=2 RR=Medium	Delays in the project. Emergence of extra work and futility of some of the work already done.

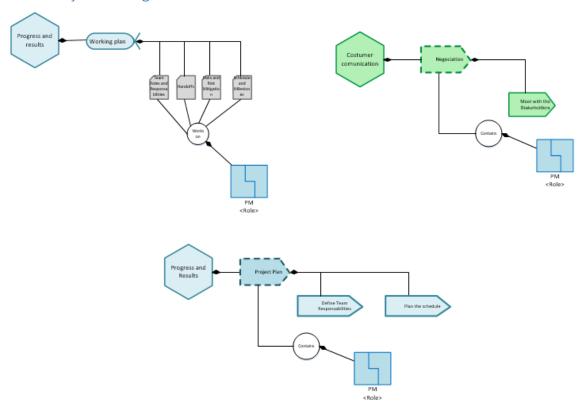
Risks detail

#	Risk name	Control, Mitigations	Frecuency	Responsible	Staff Involved
R01	Loss of key staff	Group motivational talks	When needed	Project Manager	Work Team
R02	Poor communication with partners	Information meetings (to know how the work is going and to ask if somebody needs any help).	Twice a week	Project Manager	Work Team
R02	Poor communication with partners	Use of social networks and Whatsapp Groups to communicate with all the team members	When needed	Work Team	Work Team
R03	Language barrier	Use of technical translators to communicate some of the most difficult words and expressions.	When needed	Work Team	Work Team
R04	Bad distribution of the tasks	In the information meetings the team will inform if any redistribution is needed.	Twice a week	Project manager	Work Team
R05	Schedule flaws	Use of diagrams and defined deadlines.	Once a week	Work Team	Work Team
R06	Misunderstading of requirements	Explanation meetings	Once a week	Requirement Analyst	Work Team
RO7	Change of requirements	Continiuos communication with the stakeholders.	Once a week	Project manager, requirement analyst	Project manager, requirement analyst.

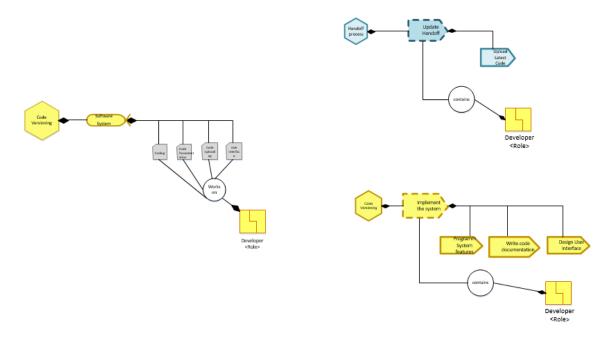
Risks mitigation

Software Development Practices

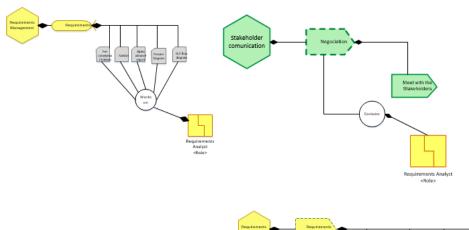
Project Manager

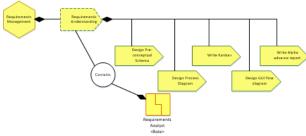


Developer

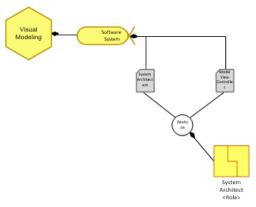


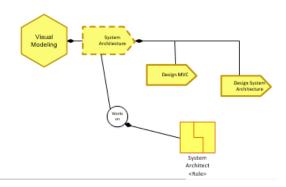
• Requirements Analyst



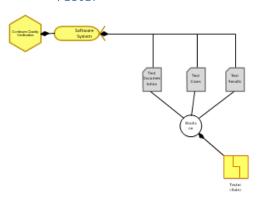


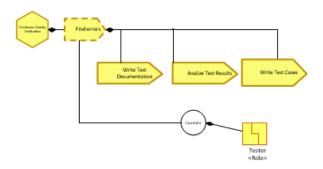
• System Architect





Tester





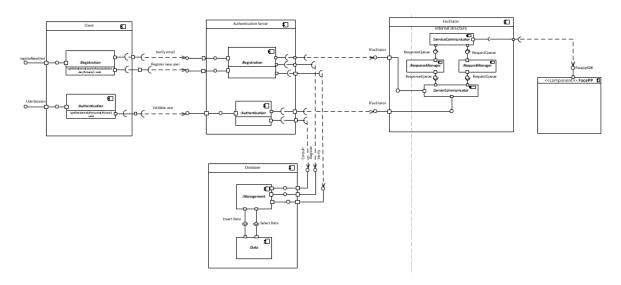
Detailed Schedule and Milestones



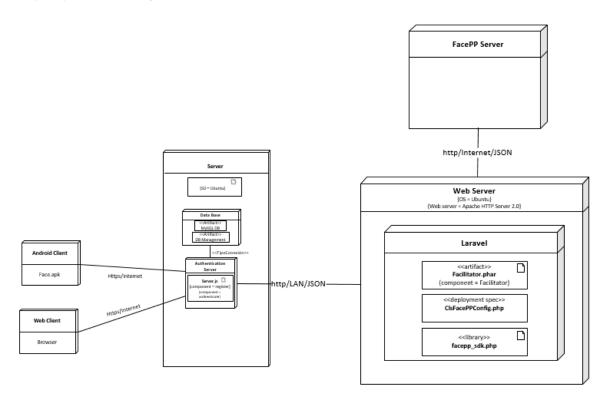
Software design

Software architectures

Component diagram



Deployment diagram



Module interface specifications

I. Introduction

The Android client API provides an standard way for interacting with the authentication server for any Android application. To do so it provides some methods to give access to the servers services, like the registration of a new user, the authentication of an user, and the verification of an email.

II. Interface Overview

a. Services Provided

Service	Provided by	Tested By
1. Register a new user in the service.	registerNewUser	
2. Validate an existing user with a picture	validateUser	
3. Verify if an email address is already registered	verifyEmail	

b. Access Methods

Access Method	Parameter name	Parameter type	Description	Except ions	Map to services
registerNew User	1. e-mail: IN	1. String	1. Email of the user, it'd be	1 2	1
	2. name: IN	2. String	used to identify him		
	3. Password: IN	3. String	inside the application.		
		4. String			
	4. Gender: IN		2. name of the		
	5. Pictures: IN	5. Vector <picture></picture>	user.		
		6. Integer	3. password of		
	6. Result: OUT		the user.		

	7. Not valid Pictures: OUT	7. Vector <picture></picture>	4. Gender of the user (F or M)		
			5. Set of pictures of the user for training facilitator		
			6. A result code according to the success or failure of the operation.		
			7. A vector of pictures containing the ones that failed to be submitted to the server, they should be changed for new ones.		
validateUser	1. email: IN. 2. password: IN 3. picture: IN 4. result: OUT	 String String Picture Integer 	1. Email of the registered user. 2. password of the user. 3. Picture to validate the user. 4. The result code of the validation.	2	2

verifyEmail	1. email: IN.	1. String	1. Email address to be	3
	2. result: OUT	2. Bool	verified.	
			2. Result of	
			the	
			verification.	
			(true if it's not	
			registered or	
			false	
			otherwise).	

c. Access Method Effects

Access Method	Description
registerNewUser	It takes the information received as parameters and sends them to the server in a JSON format, then it waits for the response and returns it to the application so it can show the correct UI according to the result code.
validateUser	It takes the information received as parameters and sends them to the server in a JSON format, then it waits for the response and returns it to the application so it can show the correct UI according to the result code.
verifyEmail	It takes the information received as parameters and sends them to the server in a JSON format, then it waits for the response and returns it to the application so it can show the correct UI according to the result code.

III.Local Types

Туре	Value Space	
Picture	Is an object that has two attributes: An Integer ID and a JPG file.	

III. Exception Dictionary

Exception Name	Assumption	Tested by
Email already registered	The email is already registered in the system.	TC2
2. Invalid picture	Some of the sent images were not accepted by the server.	TC1

IV. Test Cases

To be determined.

V. Design Issues

VI. Review Questions

Requirement Validity

- 1. For each service provided by the module, is the service valid for all expected uses of this module? If not, give an example of a use where the service is not valid.
- 2. For each service provided by the module, is the service valid for all expected configurations and versions of this module? If not, give an example of a needed configuration or version where the service is not valid.
- 3. For each service needed described in this specification, is a module (or set of modules) identified that this module is allowed to use to satisfy the need?
- 4. Are there cases where the interface specification could not be satisfied or was incomplete? If so, how should it be changed?

Requirements Sufficiency

1. Does the set of services provided specify all of the services that will be needed by users of this module? Are there any services defined that are not identified in the requirements?

2. Does the set of services needed specify all of the services that this module will need from other modules in order to operate correctly? What services are needed that are not identified in the requirements?

Consistency Between Services Provided and Access Programs

- 1. For each Services Provided described in this specification, which access program(s) can be used to satisfy the service?
- 2. For each access program specified in sections 1.2.2 which Service Provided is satisfied by the access programs?

Access Program Adequacy

- 1. Is the set of access programs sufficient to satisfy the needs of modules that are allowed to use this module?
- 2. Are there access programs that should be combined into one access program?
- 3. Are there single access programs that should be refactored into several different access programs?
- 4. Are the performance requirements adequate for the uses that will be made of this module?

Handoff 2

1. What has been done during the last period?

We planned how we were going to get the 2nd deliverable done. Also, we read the feedback from the last deliverable to know what we had to improve for the next one.

2. How the work should be continued?

We planned that we were going to separate in two teams to do the work products, and each one has this tasks:

Diego (Project Manager):

- Update Kanban and Alpha State Reports
- Improve and Update Schedule and Milestones
- Improve Team Roles and Practice/Phases diagrams
- Write Handoffs
- Collaborate with the group to design Software Architectures

Juan Diego (Developer) and Nicolas (Tester):

- Design GUI flow diagram
- Design Use Cases diagram
- Improve Preconceptual Schema
- Write Module Interfaces
- Design Class diagram

3. Is there any obstacle blocking the team?

We still have miscommunication with each other

Handoff 3

1. What has been done during the last period?

We made some progress with the work products from last Handoff, still have to improve some of them. Nicolas and Juan Diego went to Carlos Zapata for advice.

2. How the work should be continued?

We still have the some of the tasks from last Handoff since we still have to improve the work products:

Diego (Project Manager):

- Update Kanban and Alpha State Reports
- Improve and Update Schedule and Milestones
- Improve Team Roles and Practice/Phases diagrams
- Write Handoffs

Juan Diego (Developer) and Nicolas (Tester):

- Improve GUI flow diagram
- Improve Module Interfaces
- Improve Class diagram

3. Is there any obstacle blocking the team?

We still have miscommunication with each other.

Handoff 4

1. What has been done during the last period?

We finished all the work products, the 2nd deliverable is ready.

2. How the work should be continued?

The 3rd deliverable is ahead and we still have to improve the work products with the feedback that Carlos Zapata will give us.

3. Is there any obstacle blocking the team?

We improved miscommunication, but we still have it.

Work Products

Use cases

Use Case	UC01 Register User				
Version	1.0.0 Fecha	09/13/2016			
Author	Juan Diego Merino, Nicolás Henao, Die	ego Giraldo, Camilo Parra and Sebastian Cano			
Source	DSD Process Work Products				
Purpose	Registering a user				
Goals	G1: Increasing the Users. G2: Receiving the registration request. G3: Confirming that the User hasn't been created. G4: Providing the information to train the web services to the Facilitator. G5: Receiving the information from Facilitator. G6: Storing the new User information into the Database. G7: Confirming the creation of the new User to the Client.				
Summary	Creates a new User by storing its information and training the web services.				
Actors	A0: User				
Precondition	The user doesn't exist				
Interaction Sequence	User	System			
1	Clicks on "Sign Up" button	Displays the "sign up interface"			
2	Enters the name, e-mail and gender and clicks on "Verify button"	Displays the "training interface"			
3	Takes or upload 8 pictures clicking in the "+ icon"	Displays the "camera interface"			
4	Takes the picture with the take button	Displays the "training interface" with the new picture			

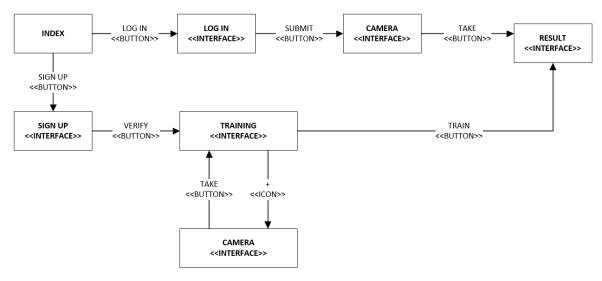
5	Clicks on "Train button" to upload	Displays the message "User successfully registered" in
	the pictures.	the "result interface"

Use Case	se Case UC01 Register User		
Alternative sequence	System	User	
2	Displays "Failed to register – already registered"		
5	Displays "Failed to register – Invalid pictures"	Takes or uploads new pictures to complete the 8 pictures again.	
Duration	Optimum: 6 minutes Average: 10 minute	es Maximum: 15 minutes	
Frecuency	20 times a week		
Type	Primary		
Postconditions	The user has been authenticated		
Chart	Authentication Log in Enrollment USER Sign up		
Interface	Check Android GUI.pdf	J	

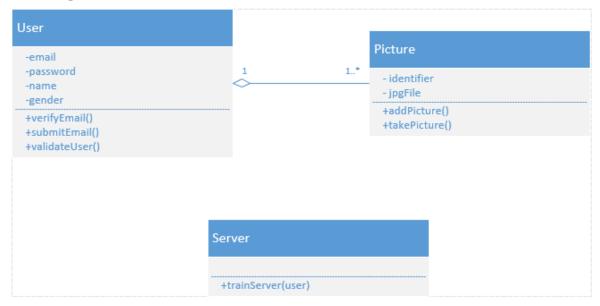
Use Case	UC02 Authenticate User					
Version	1.0.0	Fecha	09/13/2016			
Author	Camilo Parra and Sebastia	Camilo Parra and Sebastian Cano				
Source	DSD Process Work Produc	DSD Process Work Products				
Purpose	Confirming a User's ident	ity				
Goals	G1: Receiving the authentication request from any source. G2: Verifying the existence of the username in the Database. G3: Sending the authentication request information to the Facilitator. G4: Receiving the result response from the Facilitator. G5: Acquire the User's information from Database. G6: Sending the result response and User's information to the device that made the requirement.					
Summary	The system receives an authentication request, verifying the existence of the username in the Database and if it's exists, sends it to the Facilitator and if it's response is positive then acquire the user's information from the Database and sends it to the device that made the request.					
Actors	A0: User					
Precondition	The user has been registered.					
Interaction Sequence	User		System			
1	Clicks on "Log in"	Display	s the "Login interface"			
2	Enters the e-mail and click "Submit button"	s on Display	s the "camera interface" to take a picture			
3	Takes a picture with the "t button"		es the image and displays the "result interface" uccess message			

Use Case	UC02 Authenticate User				
Alternative sequence	System Us				
3	Displays "result interface" with an error message				
Duration	Optimum: 2 minutes Average: 3 minutes Maximum: 5 minutes				
Frecuency	20 times a week				
Type	Primary				
Postconditions	The user has been authenticated				
Chart	Authentication Log in Enrollment USER Sign up				
Interface	Check Android GUI.pdf				
	Check I marota Collipui				

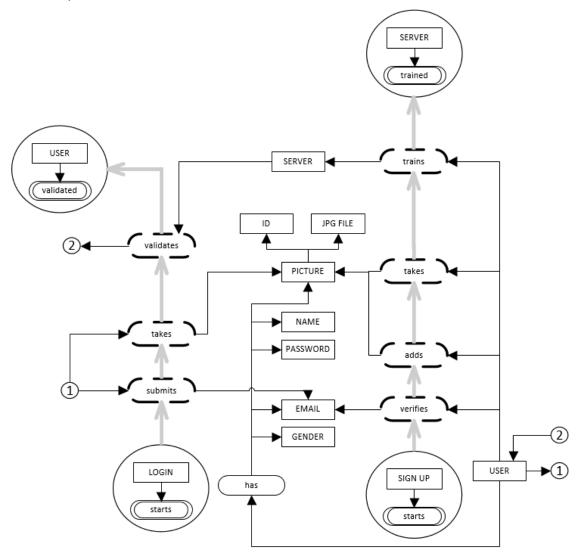
GUI Flow diagram



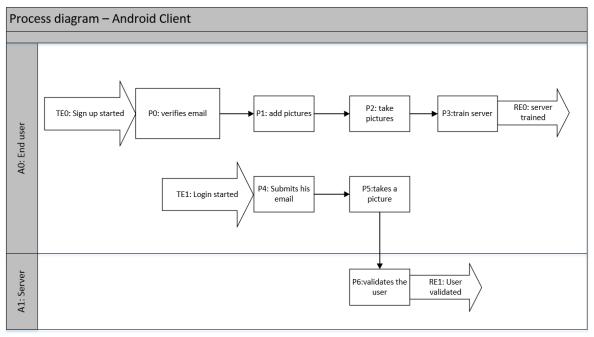
Class diagram



Pre-conceptual schema



Process diagram



Kanban

Objetives	To do	Doing		Don	e
				Task 1: Talk with the professor about the features of the software	Stakeholder Stakeholder
				requested Responsible: Project Manager	Recognized
				Task 2: Assign Project managers	□ Stakeholder groups identified □ Key stakeholder groups represented
				and roles for each of the students Responsible: Carlos Mario Zapata	Responsibilities defined
				responsible. Canos Mano Zapata	
					1/6
				Task 3: Share project managers' email and phone number	Stakeholder Stakeholder
				Responsible: Project Manager	Represented
				Task 4: Have a meeting with Stuart	Responsibilities agreed
				Faulk for clarify questions Responsible: Developer	Representatives authorized Collaboration approach agreed
					☐ Way of working supported & respected
					2/6
				Task 5: Understand the stakeholders' idea, described in the	Opportunity Street
				"concept of operations" document	Identified
				Responsible: PM, Developer, Tester	☐ Idea behind opportunity identified☐ At least one investing stakeholder
				Task 4: Have a meeting with Stuart Faulk for clarify questions	interested Other stakeholders identified
				Responsible: Developer	
					1/6
				Task 4: Have a meeting with Stuart Faulk for clarify questions	Requirements
				Responsible: Developer	Conceived
				Responsible: Developer Task 6: Understand the	☐ Stakeholders agree system is to be
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements	☐ Stakeholders agree system is to be produced ☐ Users identified
				Responsible: Developer Task 6: Understand the	☐ Stakeholders agree system is to be produced
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements	Stakeholders agree system is to be produced Users identified Funding stakeholders identified
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements	Stakeholders agree system is to be produced Users identified Funding stakeholders identified
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements	Stakeholders agree system is to be produced Users identified Funding stakeholders identified
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester	☐ Stakeholders agree system is to be produced ☐ Users identified ☐ Furding stakeholders identified ☐ Opportunity clear
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system	☐ Stakeholders agree system is to be produced ☐ Users identified ☐ Furding stakeholders identified ☐ Opportunity clear
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester	Stakeholders agree system is to be produced Users identified. Funding stakeholders identified. Opportunity clear
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester	Software System Software System
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Hy platforms identified
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester	Software System Architecture Selected Architecture Selected Architecture signed Architecture signed Architecture signed Architecture signed Architecture signed
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed William behalf of the selection criteria agreed W
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial	Software System Architecture Selected Architecture Selected Architecture selection criteria agreed HW platforms identified Technologies selected System Danday known Decisions on system organization midde
				Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed William behalf of the selection criteria agreed W
		Task 14: Meet with Shiart to sell for more	- SAGE	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to
		Task 14: Meet with Stuart to ask for more requirements	Requirements	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to
		requirements Responsible: Developer	Bounded	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to
		requirements	Bounded Development stakeholders identified System purpose agreed	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to
		requirements Responsible: Developer Task 16: Improve last pre-conceptual schema	Bounded Development stakeholders identified System purpose agreed System success clear Shared solution understanding exists	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection orteria agreed Architecture selection orteria agreed Architecture selection orteria agreed When selection orteri
		requirements Responsible: Developer Task 16: Improve last pre-conceptual schema	Bounded Development stakeholders identified System purpose agreed System success clear Shared solution understanding exists Requirement's format agreed Requirements management in place	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to
		requirements Responsible: Developer Task 16: Improve last pre-conceptual schema	Bounded Development stakeholders identified System purpose agreed System success clear System success clear Shared solution understanding exists Requirement's format agreed Requirements management in place Prioritization scheme clear Constraints identified & considered	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to
		requirements Responsible: Developer Task 16: Improve last pre-conceptual schema	Bounded Development stakeholders identified System purpose agreed System success clear Shared soldton understanding exists Requirements management in place Profitzation scheme clear	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection orteria agreed Architecture selection orteria agreed Architecture selection orteria agreed When selection orteri
		requirements Responsible: Developer Task 16: Improve last pre-conceptual schema	Bounded Development stakeholders identified System purpose agreed System success clear System success clear Shared solution understanding exists Requirement's format agreed Requirements management in place Prioritization scheme clear Constraints identified & considered	Responsible: Developer Task 6: Understand the stakeholders' tecnical requirements Responsible: PM, Developer, Tester Task 8: Define the architecture of the system Responsible: PM, Developer, Tester Task 7: Define platforms, programming languages, and the database engine Responsible: Developer, Tester Task 13: Select which facial recognitions services are going to be used Responsible: Developer, Tester Task 15: Design Interfaces	Software System Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Architecture selection criteria agreed Will patforms identified Software System Architecture selection criteria agreed Will patforms identified System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to

		Task 1: Talk with the professor about the features of the software	Work
		requested Responsible: Project Manager	Initiated
		Task 4: Have a meeting with Stuart	Required result clear Constraints clear
		Faulk for clarify questions Responsible: Developer	☐ Funding stakeholders known ☐ Initiator identified
			□ Accepting stakeholders known □ Source of funding clear
		Task 5: Understand the stakeholders' idea, described in the	☐ Priority clear
		"concept of operations" document Responsible: PM, Developer, Tester	
		responsible. Fivi, Developer, Tester	1/6
	SZMAZ Kanad	Task 9: Fill the risks and risk	
	Work	mitigation table Responsible: Project manager	
	Prepared		
	☐ Commitment made ☐ Cost and effort estimated	Task 10: Talk with the professor about available resources and	
	Resource availability understood Risk exposure understood	infrastructure that will be used Responsible: Project manager	
	□ Acceptance criteria established □ Sufficiently broken down to start		
	☐ Tasks identified and prioritized☐ Credible plan in place		
	At least one team member ready Integration points defined		
	2/6		
		Task 2: Assign Project managers and roles for each of the students	Team
		Responsible: Carlos Mario Zapata	Seeded
		Task 5: Understand the	☐ Mission defined
		stakeholders' idea, described in the "concept of operations" document	□ Constraints known and defined □ Growth mechanisms in place
		Responsible: Project manager	☐ Composition defined ☐ Responsibilities outlined
			Required commitment level clear Required competencies identified
		Task 6: Understand the stakeholders' tecnical requirements	Size determined Governance rules defined Leadership model selected
		Responsible: Project manager	1/5
		Task 11: Elaborate Project	tewar Korwel
		manager roles and responsabilities Responsible: Project manager	Team
		Task 2: Assign Project managers	Formed Individual responsibilities accepted
		and roles for each of the students Responsible: Carlos Mario Zapata	and aligned to competencies Enough members recruited
		responsible. Canos Mano Zapata	Roles understood How to work understood
		Task 12: Explain work methodology and each member role	□ Members introduced □ Members accepting work
		Responsible: Carlos Mario Zapata	□ External collaborators identified □ Communication mechanisms defined
			☐ Members commit to team
			2/0
		Task 12: Explain work methodology	Way of Working
		and each member role Responsible: Carlos Mario Zapata	Principles Established
			☐ Team actively support principles
		Task 5: Understand the stakeholders' idea, described in the	☐ Stakeholders agree with principles ☐ Tool needs agreed ☐ Approach recommended
		"concept of operations" document	Operational context understood Practice & tool constraints known
		Responsible: Project manager	
			1/6
		Task 12: Explain work methodology and each member role	Way of Working
		Responsible: Carlos Mario Zapata	Foundation Established
		Tools 5: Understor 1th :	☐ Key practices & tools selected ☐ Practices needed to start work
		Task 5: Understand the stakeholders' idea, described in the	agreed Non-negotiable practices & tools identified
		"concept of operations" document Responsible: Project manager	 Gaps between available and needed way-of-working understood
		- Farman Fragor Manager	☐ Gaps in capability understood☐ Integrated way of working available
			2/6
		1	

Alpha state advance report

Alpha State adv	How was achieved	Task	Date/Duration	Characteristics
Stakeholder Recognized Stakeholder groups identified Key stakeholder groups represented Responsibilities defined	According to the stakeholders' requirements, teams and roles were	Task 1: Talk with the professor about the features of the software requested	4/02/2016 2 hours	A meeting was done during the class time
1/6	defined in order to accomplish the task	Task 2: Assign teams and roles for each of the students	12/02/2016 2 hours	According to the CVs sent by the students, the professor formed five teams and assigned roles
Stakeholder Represented Responsibilities agreed Representalives authorized Collaboration approach agreed Way of working supported & respected	Making meetings with the stakeholder, establishing representants for each	Task 3: Share project managers' email and phone number	16/02/2016 5 minutes	
2/6	team	Task 4: Have a meeting with Stuart Faulk for clarify questions	19/02/2016 1 hour	Using skype
Opportunity Identified Idea behind opportunity identified At least one investing stakeholder interested Other stakeholders identified	Analyzing the main idea of the document where the explanation of the software is found	Task 5: Understand the stakeholders' idea, described in the "concept of operations" document	17/02/2016 2 hours	
1/6		Task 4: Have a meeting with Stuart Faulk for clarify questions	19/02/2016 1 hour	Using skype
Software System Architecture Selected Architecture selection cirteria agreed HW platforms identified Technologies selected System boundary known Decisions on system organization made Buy, build, reuse decisions made Key technical risks agreed to	Defining and designing main parts of the architecture model, such as Schemas and definition of software practices	programming languages, and the Task 15: Design	25/02/2016 1 hour	
Requirements Conceived Stakeholders agree system is to be produced Users identified Funding stakeholders identified Opportunity clear	Making a deep analysis behond the requirements stated in the document of concept of operations	Task 4: Have a meeting with Stuart Faulk for clarify questions	19/02/2016 1 hour	Using skype
1/6		Task 6: Understand the stakeholders' tecnical requirements	19/02/2016 1 hour	Based on the document and the meeting with Stuart Faulk
Work Initiated Required result clear	The requirements and limitations were identified during the meetings with Carlos Mario Zapata and Stuart Faulk	Task 1: Talk with the professor about the features of the software requested	4/02/2016 2 hours	A meeting was done during the class time
Constraints clear Funding stakeholders known Initiator identified Accepting stakeholders known Source of funding clear Priority clear		Task 4: Have a meeting with Stuart Faulk for clarify questions Task 5: Understand	19/02/2016 1 hour	Using skype
1/6		the stakeholders' idea, described in the "concept of operations"	17/02/2016 2 hours	

Team Seeded Mission defined Constraints known and defined	Teams were defined according to the CVs sent by the students, and each team's mission was defined based on the "concept of operations" document	Task 2: Assign teams and roles for each of the students	12/02/2016 2 hours	According to the CVs sent by the students, the professor formed five teams and assigned roles
Growth mechanisms in place Composition defined Responsibilities outlined Required commitment level clear		Task 6: Understand the stakeholders' tecnical requirements	19/02/2016 1 hour	Based on the document and the meeting with Stuart Faulk
Required competencies identified Size determined Gowernance rules defined Leadership model selected		Task 5: Understand the stakeholders' idea, described in the "concept of operations"	17/02/2016 2 hours	
Team Formed Individual responsibilities accepted	Diagrams were made, according to the description of the roles presented in the "concept of operations" document	Task 11: Elaborate team roles and responsabilities diagrams	20/02/2016 5 hours	
and aligned to competencies Enough members recruited Rojes understood How to work understood Members introduced Members accepting work		Task 2: Assign teams and roles for each of the students	12/02/2016 2 hours	According to the CVs sent by the students, the professor formed five teams and assigned roles
External collaborators identified Communication mechanisms defined Members commit to team 2/5		Task 12: Explain work methodology and each member role	16/02/2016 2 hours	During the class
Way of Working Principles Established Team actively support principles Stakeholders agree with principles Tool needs agreed Approach recommended Operational context understood	Stablishing the work principles, communication methodologies, communication tools and platforms for sharing files	Task 12: Explain work methodology and each member role	16/02/2016 2 hours	During the class
Practice & tool constraints known		Task 5: Understand the stakeholders' idea, described in the "concept of operations" document	17/02/2016 2 hours	
Way of Working Foundation Established Key practices & tools selected Practices needed to start work agreed Non-negotiable practices & tools identified	Selecting tools and other useful practices for a good team work	Task 12: Explain work methodology and each member role	16/02/2016 2 hours	During the class
☐ Gays between available and needed way-of-working understood ☐ Gays in capability understood ☐ Integrated way of working available 2 / 6		Task 5: Understand the stakeholders' idea, described in the "concept of operations" document	17/02/2016 2 hours	