Use case: Login

Table **Error! No text of specified style in document.**.1 : Login use case description

Use Case ID:	UC-01	
Use Case Name:	Login	
Created By:	Azeb	
Date Created:	2/1/2019	
Updated By	All team members	
Date Updated:	4/1/2019	
Actors:	ICA,WR,ZR,ZME,RR,RHS,RME,RD,RTDD,FHRA,FHSA,FTDA,tour guide	
Description	This use case describe how users login into the system	
Trigger	The user wants to log in to the system and he/she requests to login.	
Pre-Condition	The actors have an account in ARCCH database.	
Normal Flow	User actions	System response
	1.The user want to login into the system. 2. User open the system using URL. 4. Users enters their user name and password and clicks login button.	3. System displays login pages. 5. The system check and verify that all inputs are filled and valid. 6. Successfully logged into the system. 7. Use case end.
Post Condition	If the use case executed successfully, the users are logged into the system and has access to the functions of the system, If not the system state unchanged.	
Alternative Flows	If all fields are not filled out or not matched to the username and password the system display error message and then goes back or returns to step 4 of normal flow to enter again.	
Exceptions	1. Incorrect username or password	

	2. Not registered user
Priority	High
Frequency of use	Every time the user wants to access the system.
Business Rules	1. The user must be eligible to use the system. 2. User's username and password must match.
Special Requirements	1. *Security for password entry:* the password should be encoded and shown as * symbols on the screen when entered by the user 2. *Accessibility:* Login feature is accessible using Smart phones, desktop computers with its browser 3. *Accessibility and Availability:* the log in to system is available from anytime and anywhere via internet

Use case: Create account

Table **Error! No text of specified style in document.**.2 : Create account use case description

Use Case ID:	UC-02	
Use Case Name:	Create account	
Created By:	Azeb	
Date Created:	2/1/2019	
Updated By	All team members	
Date Updated:	4/1/2019	
Actors:	Regional Director, Information Center Administrator	
Description	This use case describe how admin create account for other users	
Trigger	The staff member wants to have an account to use the system	
Pre-Condition	1. The user must be logged-in as RD or ICA 2. The actors must know user information	
Normal Flow	User actions	System response
	1. RD or ICA open account creating page	2. System displays Sign Up pages

	3. RD or ICA enters necessary information about users and clicks create account button	4. The system check and verify that all inputs are filled and valid
		5. Successfully account created for users
		6. Use case end
Post Condition	If the use case executed successfully, the users have an account to use the system	
Alternative Flow	If all fields are not filled out the system display error message and then goes back or returns to step 3 of normal flow to enter again.	
Priority	High	
Frequency of use	Every time the admin wants to add new user to the system.	
Business Rules	1. *Username and password:* The system must generate default username and password to the new user. The username must be unique. The default password should contain 8 or more characters. The system should inform the new user to change the default password. 2. *Number of account:* One user must have only one account in the system. No duplicate user in the system. 3. *Account status:* The default account status is active.	

Use case: Approve registration

Table **Error! No text of specified style in document.**.3 : Heritage registration approval use case description

Use Case ID:	UC-03
Use Case Name:	Approve registrations
Created By:	Samuel
Date Created:	1/1/2019
Updated By:	All team members
Date Updated:	3/1/2019

Actors	Zone registrar expert, Regional registrar expert
Description	This use case describes how zone registrar expert to approve registration of heritages by woreda registrar and how regional registrar expert to approve zone registrar approval
Trigger	Presence of unapproved or new registration found
Precondition	Heritages must be registered by woreda registrar expert

Normal flow	User actions	System response
	1. Zone registrar expert wants to approve Woreda heritages registration and regional registrar wants to approve zone approval 2. ZRE and RR clicks on approval request buttons 4. ZRE and RR review and check whether the registration is according to the rule and if its right click approve button	3. System displays the new requests which will be approved by ZRE and RR 5. System will update the status of the heritages and send notification to Woreda registrar 6. System will display successful approval message 7. Use case end

Post conditions	1. Woreda registration of heritages will be approved 2. Approval request will be sent to regional registrar expert 3. Notification will be sent to Woreda registrar to notify approval of his/her registration of heritages by zone registrar
Alternative course of actions	If user make fault during approval of the registration system must go back to step 2 of normal flow
Priority	High
Frequency of use	Every time a new heritages is registered and need for approval comes
Business rule	Cultural heritage shall get registered same in accordance with the directive issued by the minister.

Special requirement	only authorized one can approve the registrations

Use case: Generate report

Table **Error! No text of specified style in document.**.4 : Generate report use case description

Use Case ID:	UC-04	
Use Case Name:	Generate report	
Created By:	Samuel	
Date Created:	1/1/2019	
Updated By:	All team members	
Date Updated:	3/1/2019	
Actors	Zone registrar Regional registrar Regional heritage supervisor Regional tourism development directorate	
Description	This use case describes how actors to generate report in various format for various purpose	
Trigger	The users wants to view report or send report	
Precondition	The data used to generate report must be available	
Normal flow	User actions	System response
	1. Users wants to generate report in various format 2. Users clicks on report button 4. Users select generate report options 6. User select the format they want and click on generate report button	3. System displays view report or generate report or send report option 5. System display various report format for users to select according to their want 7. System generate the required report for users 8. Use case end

Post conditions	Report is generated in required format for users
Alternative course of action	If user make fault during format selection the system go back to step 6 of normal flow
Priority	High
Frequency of use	Every time when they need report
Special requirement	System shall allow only authorized one can generate report System shall allow to generate report with minimum time

Use case: Send report

Table **Error! No text of specified style in document.**.5 : Send report use case description

Use Case ID:	UC-05	
Use Case Name:	Send report	
Created By:	Samuel	
Date Created:	1/1/2019	
Updated By:	All team members	
Date Updated:	3/1/2019	
Actors	Regional registrar Regional maintenance expert Regional heritage supervisor Regional tourism development directorate	
Description	This use case describes how to send report in various format for various users	
Trigger	The users wants to send reports	
Precondition	The data used to send report must be available	
	User actions	System response

Normal flow	1. Users wants to send report for various users 2. Users click on report button 4. Users select send report options 6. User fill the fields and click send button	3. System displays view report or generate or send report option 5. System display send report page 7. System send the report to the specified users 8. System displays successful send message to users 9. Use case end
Post conditions	Report is sent in required format for specified users	
Alternative course of action	If all fields are not filled out the system goes back or returns to step 6 of normal flow. To fill the invalid or the empty field.	
Priority	High	
Frequency of use	Per week	
Special requirement	System shall allow only authorized one can send report System shall allow to send report with minimum time	

Use case: Track tourists

Table **Error! No text of specified style in document.**.6 : Track tourist use case description

Use Case ID:	UC-06
Use Case Name:	Track tourist
Created By:	Samuel
Date Created:	1/1/2019
Updated By:	All team members
Date Updated:	3/1/2019
Actors	Information center administrator
Description	This use case describes how to track tourist information that visit a certain heritages
Trigger	The ICA wants to know flow of tourist that visits a certain heritages

Precondition	Tourists or visitors must be available	
Normal flow	User actions	System response
	1. ICA wants to track tourist information	3. System displays tracking tourist information page
	2. ICA click on track tourist information button	5. System display successful tracking message
	4. ICA fill all fields and click track button	6. Use case end
Post conditions	All necessary information of tourist will be tracked	
Alternative course of action	If all fields are not filled out the system goes back or returns to step 4 of normal flow. To fill the invalid or the empty field.	
Priority	High	
Frequency of use	Every time when there is a tourists visit a certain heritage	

Use case: Register tour guide

Table **Error! No text of specified style in document.**.7 : Register tour guide use case description

Use Case ID:	UC-07	
Use Case Name:	Register tour guide	
Created By:	Mizan	
Date Created:	31/21/18	
Updated By:	All team members	
Date Updated:	31/21/18	
Actors:	Information center administration	
Description:	This use case describes how actors register the tour guide into the system.	
Trigger:	The ICA wants to register tour guide	
Preconditions:	There must be a tour guide, he/she want to be registered in the system.	
Normal Flow:	User action	system response

	1. The Information center administrator wants to add new tour guide. 2. The Information center administrator requests add new tour guide page. 4. The admin fills out the form. 5. The Administrator clicks or presses on the save button.	3. The system displays a form to be filled out for registration. 6. The system verifies that all the fields' have been filled out. 7. Successfully registered 8. Use case end
Post conditions:	If the use case is successful, the tour guide is now registered into the system database. If not the system state in unchanged.	
Alternative Flows:	If all fields are not filled out the system goes back or returns to step 4 of normal flow. To fill the invalid or the empty field.	
Exceptions:	InvalidInputFormat exception	
Priority:	High	
Frequency of Use:	Every time there is new tour guide	

Use case: Promote heritage

Table **Error! No text of specified style in document.**.8 : Promote heritage use case description

Use Case ID:	UC-08
Use Case Name:	Promote heritages
Created By:	Betemariam
Date Created:	01/01/2019
Updated By:	All team members
Date Updated:	03/01/2019
Actors:	Tourism development directorate
Description:	This use case describes how actors promote the heritage to be visited by the tourists.

Trigger:	Presence of a new heritage to be visited.	
Preconditions:	1. New or unknown heritage by tourists or visitors must be available.	
Normal Flow:	User Action	System Response
	1) Tourism directorate wants to promote a new heritage 2) Tourism directorate press on add promotion button 4) Tourism directorate enters the required information in the form 5) Tourism directorate click on promote button.	3) The system response or displays a form to be filled out for promoting the heritage. 6) The system verifies that all the fields have been filled correctly. 7) The System displays a successfully promotion message 8) Use case end
Post conditions:	1. If the use case is successful a new heritage is promoted to the visitors or tourists. 2. If not the system state is unchanged.	
Alternative Flows:	If the tourism directorate enters incorrect value goes back or returns to step 4 of normal flow, to fill the invalid value or the empty field.	
Exceptions:	InvalidInputFormat	
Priority:	High	
Frequency of Use:	Every time new or unknown to the tourist heritages found.	

Use case: Register heritages

Table **Error! No text of specified style in document.**.9 : Register heritage use case description

Use Case ID:	UC-09
Use Case Name:	Register heritage
Created By:	Betemariam
Date Created:	01/01/2019
Updated By:	All team members

Date Updated:	03/01/2019	
Actors:	Woreda registrar	
Description:	This use case describes how actors register the heritage detail information.	
Trigger:	New heritage is discovered or new heritage registration request is available.	
Preconditions:	1. User's identity has been authenticated. 2. There must be a presence of unregistered heritage may be owned by the state or by any person found.	
Normal Flow:	User Action	System Response
	1) Woreda registrar wants to register a new heritage. 2) Woreda registrar press on add heritage button 4) Woreda registrar enters the required information in the form 5) Woreda registrar clicks on save button.	3) The system response or displays a form to be filed out for registering the heritage. 6) The system verifies that all the fields have been filled correctly. 7) The System displays a successfully registration message 8) Use case end
Post conditions:	1. If the use case is successful, the heritage is now registered into the system database 2. If not the system state is unchanged.	
Alternative Flows:	If the Woreda registrar enters incorrect value goes back or returns to step 4 of normal flow, to fill the invalid value or the empty field.	
Exceptions:	InvalidInputFormat	
Priority:	High	
Frequency of Use:	When new heritage which is owned by the state or by any person found.	

Business Rules:	The authority shall register cultural heritage using codes appropriate for their custody and preservation.
Special Requirements:	Only authorized user register details of heritages

Use case: Approve maintenance request

Table **Error! No text of specified style in document.**.10 : Approve maintenance request use case description

Use Case ID:	UC-10	
Use Case Name:	Approve maintenance request	
Created By:	Betemariam	
Date Created:	01/01/2019	
Updated By:	All team members	
Date Updated:	03/01/2019	
Actors:	Regional directorate	
Description:	This use case describes how actors approve maintenance request by considering the severity of the damage and based on the severity prioritize the response.	
Trigger:	When approval is needed for maintenance request.	
Preconditions:	1. User's identity has been authenticated. 2. There must have maintenance request from woreda or zones.	
Normal Flow:	User Action	System Response
	1) Regional directorate wants to approve maintenance request. 2) Regional directorate click on view maintenance request. 4) Regional directorate click on approve request button.	3) The system response or displays detail information about maintenance request. 5) The System displays a successfully approval message 6) Use case end
Post conditions:	1. If the use case is successful, maintenance request is approved. 2. If not the system state is unchanged.	

Alternative Flows:	If maintenance request information has not existed in database the system display no maintenance request available message.
Priority:	High
Frequency of Use:	Every time maintenance request to be approved is available.
Business Rules:	Any conservation and restoration work on cultural heritage shall be carried out with the prior approval of the authority.

Use case: Maintenance request

Table **Error! No text of specified style in document.**.11 : Maintenance request use case description

Use Case ID:	UC-11	
Use Case Name:	Maintenance request	
Created By:	Betemariam	
Date Created:	01/01/2019	
Updated By:	All team members	
Date Updated:	03/01/2019	
Actors:	Woreda registrar, zone maintenance expert, regional maintenance expert	
Description:	This use case describes how actors prepare and send maintenance request by gathering the status of the heritage.	
Trigger:	Presence of endanger/damaged heritage.	
Preconditions:	1. There must be a presence of damaged/endanger heritage either with high, medium, low severity.	
Normal Flow:	User Action	System Response
	1) WR, ZME or RME wants to send maintenance request. 2) WR, ZME or RME press on request button.	3) The system response or displays a form to be filled out for maintenance request. 6) The system verifies that all the fields have been filled correctly.

	4) WR, ZME or RME enters the required information in the form 5) WR, ZME or RME click on send request button.	7) The System displays a successfully send request message 8) Use case end
Post conditions:	1. If the use case is successful, maintenance request is sent. 2. If not the system state is unchanged.	
Alternative Flows:	If the WR, ZME or RME incorrect value goes back or return to step 4 of normal flow, to fill the invalid value or the empty field.	
Exceptions:	InvalidInputException	
Priority:	High	
Frequency of Use:	Every time maintenance request to be send is available	
Business Rules:	Any conservation and restoration work on cultural heritage shall be carried out with the prior approval of the authority.	
Special Requirements:	Maintenance must be approved in timely manner	

Use case: Logout

Table **Error! No text of specified style in document.**.12 : Logout use case description

Use Case ID:	UC-12
Use Case Name:	Logout
Created By:	Mizan
Date Created:	1/1/2019
Updated By:	All team members
Date Updated:	3/1/2019
Actors	All login actors
Description	This use case describes show the logged in actors want to logout from the system
Trigger	The logged actors wants to expire his/her session

Precondition	1. The user is logged in 2. The user no longer wants to be logged in.	
Normal flow	User actions	System response
	1. The user wants to logout from the system 2. The user clicks logout button	3. Redirect the user to login page and terminates the session. 4. Use case end
Post conditions	1. The user is logged out 2. User redirected to the login page.	
Frequency of use	Every time the user wants to log out.	

Use case: Give rate

Table **Error! No text of specified style in document.**.13 : Give rating use case description

Use Case ID:	UC-13	
Use Case Name:	Give rating	
Created By:	Mizan	
Date Created:	31/21/18	
Updated By:	All team members	
Date Updated:	31/21/18	
Actors:	Tourist	
Description:	This use case describes how actors give rating to the tourist guide.	
Trigger:	Tourists wants to like the service they get	
Preconditions:	The tourist must log in to the system.	
Normal Flow:	User action	System response
	1. The Tourist wants to give rate to the tour guide. 2. The tourist selects the tour guide.	3 The system checks if the tour guide status is active.

	4 The Tourist give rate to the tour guide	5 The system saves the value in to the database and apply the change. 6 The system shows success message. 7 Use case end
Post conditions:	If the use case is successful, rating value of the tour guide is updated and his/her popularity index re-calculated. If not, the system state is unchanged.	
Alternative Flows:	If the tourist will not rate, the system goes back or returns to step 2 of normal flow	
Priority:	Medium	
Frequency of Use:	Every time the tourist wants to give rate.	
Business Rules:	Maximum rating must not be more than 5	
Special Requirements:	The data must be encrypted while it's saves to the database.	

Use case: View heritage information

Table **Error! No text of specified style in document.**.14 : View heritage information use case description

Use Case ID:	UC-14	
Use Case Name:	View heritage information	
Created By:	Mizan	
Date Created:	31/21/18	
Updated By:	All team members	
Date Updated:	31/21/18	
Actors:	Tourist	
Description:	This use case describes how actors get information about the heritage.	
Trigger:	Tourists wants to view heritages information	
Preconditions:	Information about the heritage must be exist in the database.	
Normal Flow:	User action	System response

	1. The tourist starts the app. 2. The tourist selects the cultural heritage or heritage place that she/he want to see. 4 The tourist see detail about the heritage. 5 Use case end	3 The system fetch information about the heritage.
Post conditions:	The tourist will get updated information about the heritages.	
Priority:	High	
Frequency of Use:	Every time the tourist wants to see information about the heritage.	
Special Requirements:	Only the tourism development directorate can modify the information about heritage.	

Use case: Recommend

Table **Error! No text of specified style in document.**.15 : Recommend use case description

Use Case ID:	UC-15	
Use Case Name:	Recommend	
Created By:	Mizan	
Date Created:	31/21/18	
Updated By:	All team members	
Date Updated:	31/21/18	
Actors:	Tourist	
Description:	This use case describes how actors give recommendation about the heritage status.	
Trigger:	Tourist want to recommend about damaged heritages	
Preconditions:	The tourists must have information about the current status of the heritage.	
Normal Flow:	User action	System response

	1. The tourist open the app and click on add recommendation button 3. Fill the form 4. Send the information by clicking submit button.	2. The system displays a form to be filled out for recommendation. 5. The system validates the form. 6. The system shows successfully submitted message. 7. Use case end
Post conditions:	If the use case is successful, the data successfully inserted into the system database and sent. If not the system state in unchanged.	
Alternative Flows:	If all fields are not filled out the system goes back or returns to step 3 of normal flow. To fill the invalid or the empty field.	
Priority:	High	
Frequency of Use:	Every time the users or tourists wants to send recommendation.	