

Assignment

For Advance Database Programming

General Instruction

Please read “SQL Coding Standards and Best Practices” document before you start work on this assignment. You can find this document over the [**Workspace**](#)

In order to get this document, navigate to My Workspace > Documents > Technical Standards > **SQL Coding Standards and Best Practices**.

 My Workspace > Documents

Documents



HR Policies



Technical Standards

.Net Coding Standards and Best Practices

SQL Coding Standards and Best Practices

Java Coding Standards and Best Practices

Angular JS Guidelines

UAT Standard Sheet

CMMI Process Flow



KRA - Technical



KRA - QA



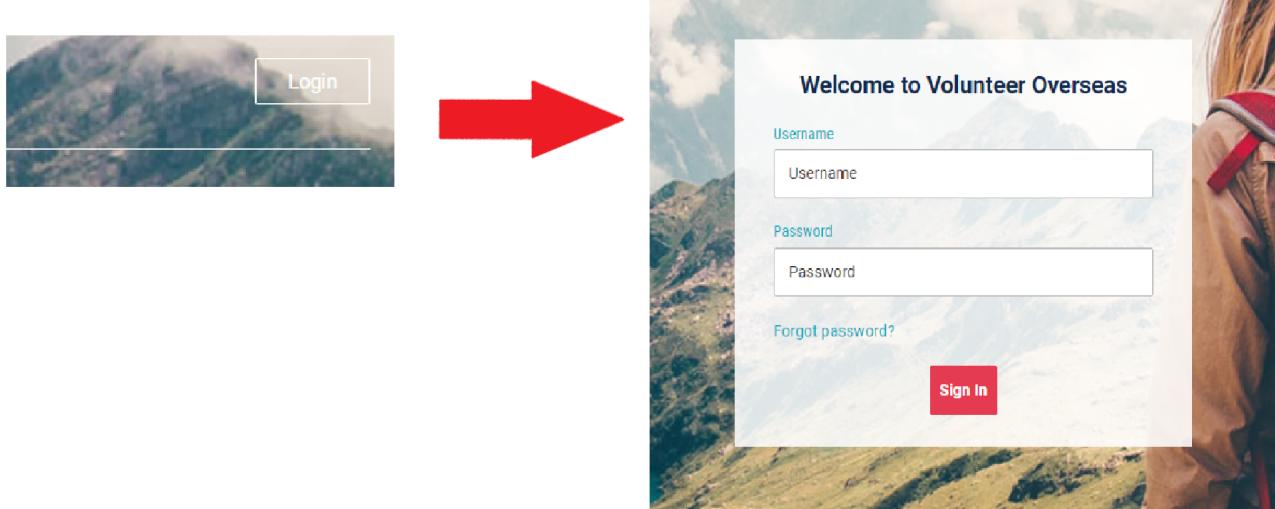
KRA - UX



Holidays

FOR FRONT-END

Login

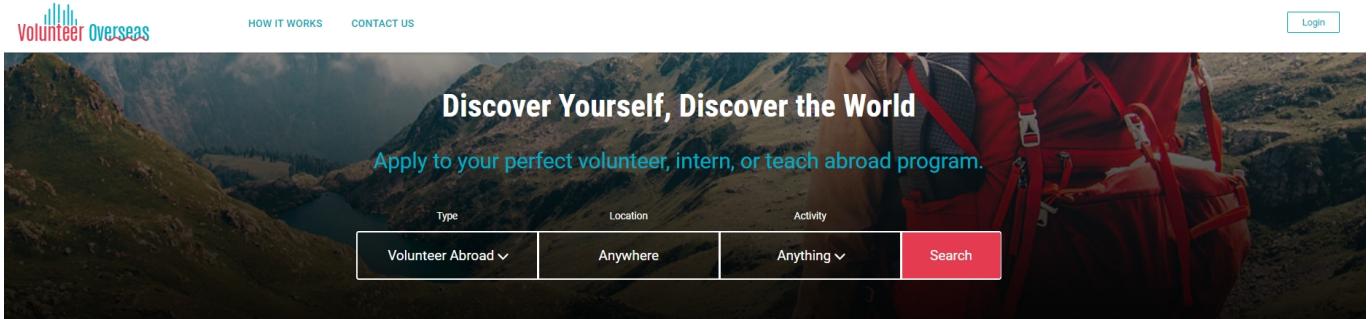


Write a stored procedure to Validate the User

Procedure Name	u_validateUser
Description	Validate User credential
Input Parameter(s)	<ol style="list-style-type: none"> 1. UserName VARCHAR(Column Size whatever you have defined in table) 2. Password VARCHAR(Column Size whatever you define in table)
Out Parameter(s)	N/A
Result/Output column(s)	Required attributes from User table to set session with common information like UserId, Name, Role, Email Address etc.
Target Screen/Area	Login
Note	N/A

Home Page (index.html)

For Filter Options:



The screenshot shows the homepage of Volunteer Overseas. At the top, there's a navigation bar with links for "Volunteer Overseas", "HOW IT WORKS", "CONTACT US", and "Login". Below the navigation is a large banner with the text "Discover Yourself, Discover the World" and "Apply to your perfect volunteer, intern, or teach abroad program.". Underneath the banner is a search panel with three dropdowns: "Type" set to "Volunteer Abroad", "Location" set to "Anywhere", and "Activity" set to "Anything". A red "Search" button is to the right of the dropdowns.

Trending Projects



Write a generic stored procedure to get list of Types(Categories), Locations and Activities (For Search Panel in Banner).

Procedure Name	usp_getTypes
Description	Prepare generic stored procedure to list out the types (Categories)
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<p>Result should be as below</p> <ol style="list-style-type: none"> 1. Id (id) 2. Name (i.e. category_name)
Target Screen/Area	<ul style="list-style-type: none"> - Home Screen – Filter - Search Result Screen
Note	This is a generic procedure which will be used to list out all the categories

Procedure Name	usp_getLocations (u_getCountries)
Description	Prepare generic stored procedure to list out the Locations
Input Parameter(s)	1. SearchCountry VARCHAR(Column Size whatever you define in table)
Out Parameter(s)	N/A
Result/Output	Result should be as below

column(s)	<ol style="list-style-type: none"> 1. Id (id) 2. Name (i.e. country_name) 3. Image (i.e. country_image)
Target Screen/Area	<ul style="list-style-type: none"> - Home Screen – Filter - Search Result Screen
Note	This is a generic procedure which will be used to list out all the Countries/Locations

Procedure Name	usp_getActivities
Description	Prepare generic stored procedure to list out the Activities
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<p>Result should be as below</p> <ol style="list-style-type: none"> 1. Id (id) 2. Name (i.e. activity_name)
Target Screen/Area	<ul style="list-style-type: none"> - Home Screen – Filter - Search Result Screen
Note	This is a generic procedure which will be used to list out all the Activities

Above three stored procedures are to get Drop Down/ Auto Suggestion in filter options.

For Trending Projects:

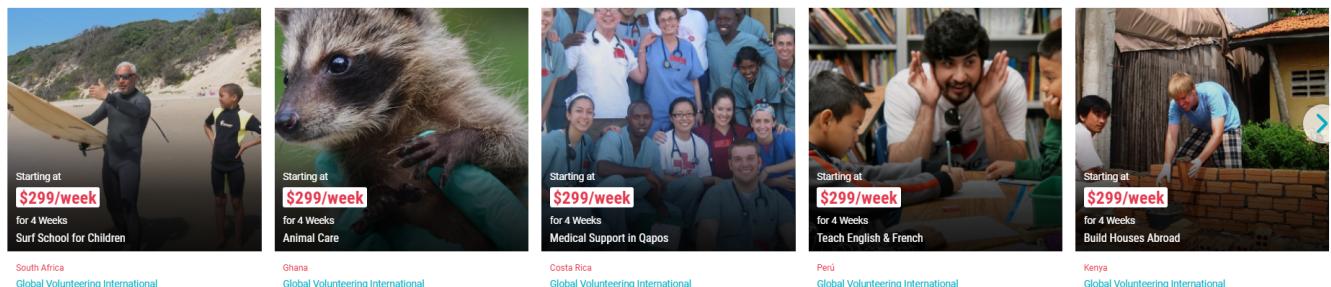
Write a stored procedure to get list of active Projects based on Project View History.

Procedure Name	usp_getTrendingProjects
Description	List out all active Projects based on Users' count who have viewed the Project
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<p>Projects Info:</p> <ol style="list-style-type: none"> 1. Project Id 2. Project Name 3. Project Country 4. Project Organization Name 5. Count of Users who have Viewed the Project 6. Project Main Image
Target Screen/Area	Home page – Trending Project section
Note	Purpose: To get active trending Projects.

Feature Destinations



Most Affordable Projects



For Feature Destinations:

Write a stored procedure to get list of Countries with count of projects in it.

Procedure Name	usp_getCountriesWithProjectCount
Description	List out all the Countries with the count of Projects located in it
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<p>Country Info:</p> <ol style="list-style-type: none"> 1. Country Id 2. Country Main Image 3. Country Name 4. Count of Projects in Country
Target Screen/Area	Home page – Feature Destination Section
Note	Purpose: To get list of countries based on projects located in it

For Most Affordable Projects:

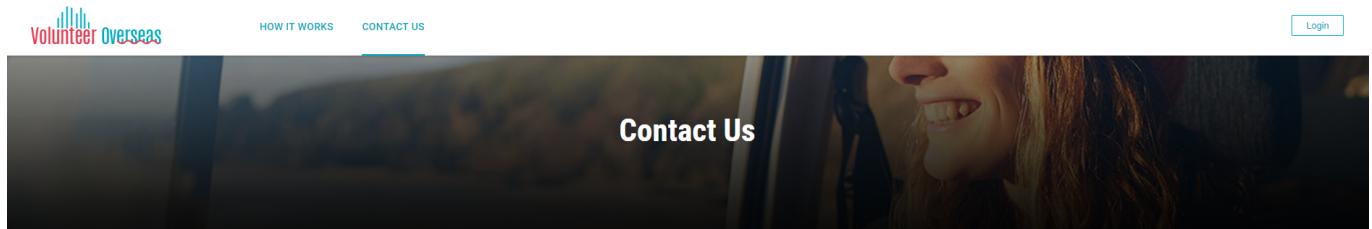
Write a stored procedure to get list of Projects based on project costs.

Procedure Name	usp_getProjectsBasedOnCost
Description	List out all the Projects based on Cost
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<p>Project Based on Cost Info:</p> <ol style="list-style-type: none"> 1. Project Id 2. Project Name 3. Project Cost 4. Project Duration 5. Project Country 6. Project Organization 7. Project Main Image
Target Screen/Area	Home page – Most Affordable Projects Section
Note	Purpose: To get list of countries based on projects located in it

Create a Single Stored Procedure to call all the above given stored procedure(i.e. For Trending Projects, For Feature Destinations and For Most Affordable Projects) and get output as Dataset which will contain all the above given results as data tables.

Procedure Name	usp_getAllHomePageData
Description	List out all the details required on the Home Page
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<p>Home Page Info:</p> <ol style="list-style-type: none"> 1. Projects Info 2. Country Info 3. Project Based on Cost Info
Target Screen/Area	Home page
Note	Purpose: To get multiple tables as Output using Stored Procedure by calling multiple stored procedures from single stored procedure.

Contact Us



Got questions for your Volunteer Overseas team? No problem! We've got answers...or at least the best guidance to help you book your dream program abroad. Don't hesitate to drop us a line, and your trusted Volunteer Overseas travel guides will get back to you in record time. Thank you!

Name	your@email.com
Message	
<input style="background-color: red; color: white; border: none; padding: 5px; width: 100px; height: 30px; font-size: 10px; border-radius: 5px;" type="button" value="Send"/>	

Write a Stored procedure to Add Details in Inquiry table which is entered by User in Contact Us page.

Procedure Name	u_addInquiry
Description	Add record in the Inquiry Table
Input Parameter(s)	<ol style="list-style-type: none"> 1. Name – VARCHAR(Column Size whatever you define in table) 2. EmailId – VARCHAR(Column Size whatever you define in table) 3. Message – VARCHAR(Column Size whatever you define in table)
Out Parameter(s)	1 – Added Successfully 0 – Operation failed
Result/Output column(s)	N/A
Target Screen/Area	Contact Us screen
Note	N/A

Write a Stored Procedure to get details from Inquiry Table.

Procedure Name	u_getInquiryDetail
Description	Get record(s) from the Inquiry Table
Input Parameter(s)	N/A
Out Parameter(s)	N/A

Result/Output column(s)	Inquiry Info: 1. Id 2. name 3. email 4. message 5. requested_at
Target Screen/Area	- No User Interface for now. It can be introduced to Admin Side (Back-end)
Note	Procedure to list out users who wants to contact us.

Project Details Screen (project-details.html)



Ghana Medical Volunteers

📍 Kumasi, Ghana

 [Plan My Gap Year](#)

⌚ From \$714 for 2 Weeks ⏰ 2 - 24 Weeks 🚧 18 And Older

[DESCRIPTION](#) [LOCATION](#) [COST](#) [DATES](#) [ORGANIZATION](#)

Description

Overview

Even in the 21st century, healthcare comes at a premium in many parts of the world. Volunteer abroad at the Manhyia government hospital, based in central Kumasi, Ghana, and find plenty of opportunities to help improve the health and well-being of underserved communities, and gain first-hand experience and insight into the Ghanaian healthcare system. The work of the healthcare system in Ghana is not only to treat immediate cases but also to educate the local communities in preventative measures.

PMGY's Ghana Medical Volunteer's program organizes placements for people of all backgrounds. So whether you're a recent

23 people are researching this project

Project start date
📅 12-05-2018

Duration
2 weeks

[Apply Now](#)

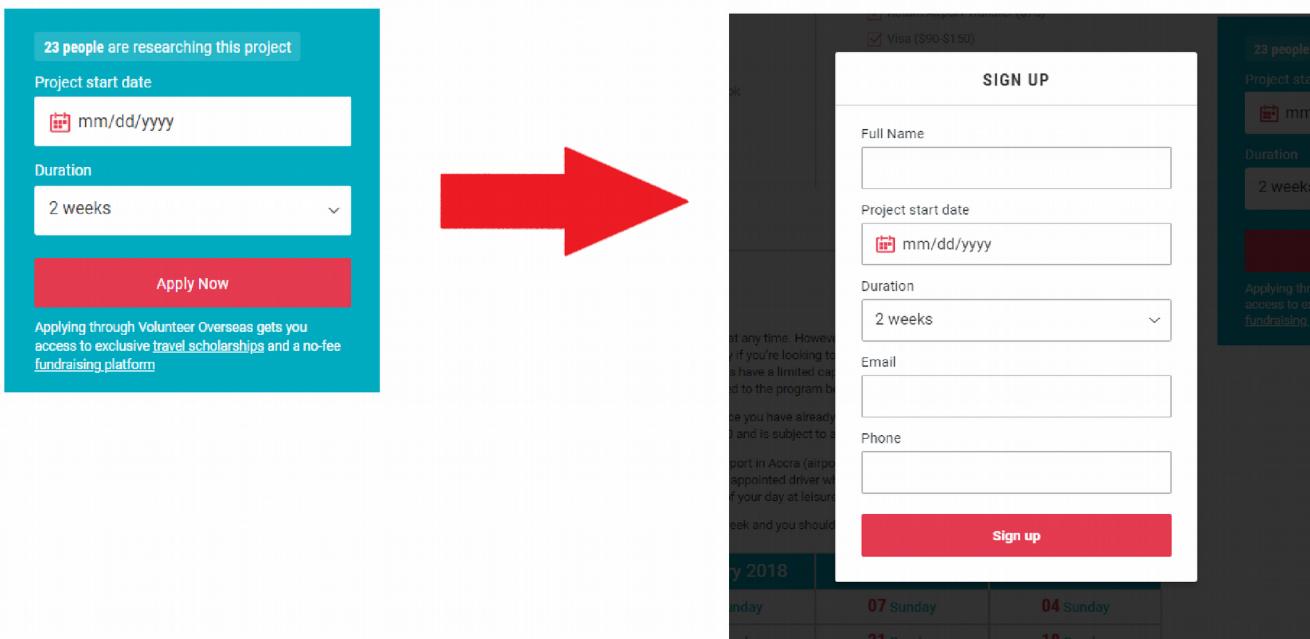
Applying through Volunteer Overseas gets you access to exclusive travel scholarships and a no-fee fundraising platform

Write a Stored Procedure to get all the Details of the particular Project

Procedure Name	u_getProjectDetails
Description	Get Project details for relevant project
Input Parameter(s)	1. Project Id – INT
Out Parameter(s)	N/A
Result/Output column(s)	<p>Project Detailed Info:</p> <ol style="list-style-type: none"> 1. Project Id 2. Project Name 3. Project Country 4. Project City 5. Project Organization Name 6. Project Min Age 7. Project Max Age 8. Project Duration 9. Project Cost 10. Project Organization Logo 11. Volunteer Work Address 12. Volunteer House Address 13. Nearest Airport Address 14. Project Overview Description 15. Project Impact Description 16. Project Accommodation Description

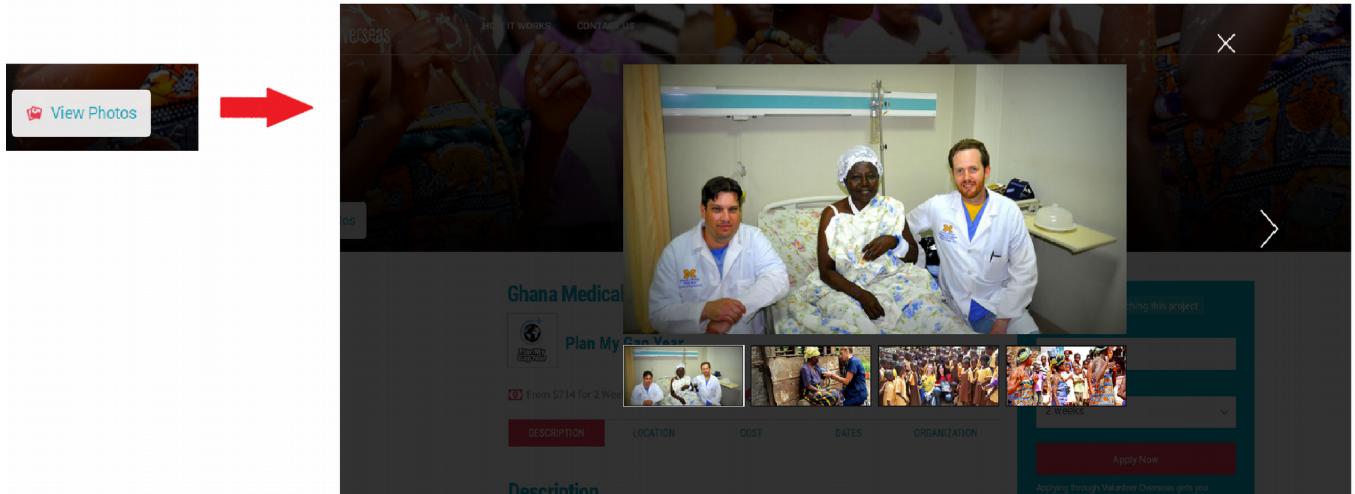
	17. Project Video URL 18. Cost Description 19. Project Included Things 20. Project Not Included Things 21. Project Start Date Description 22. Project Start Dates 23. Organization Description
Target Screen/Area	Project Details
Note	N/A

Write stored procedure to add application of user for the Project



Procedure Name	usp_applyForProject
Description	Add user's details to Application table
Input Parameter(s)	1. Full Name – INT 2. Project Start Date – DATETIME 3. Duration – INT 4. Project ID – INT 5. Email ID – VARCHAR (Column Size whatever you define in table) 6. PhoneNo – VARCHAR(Column Size whatever you define in table)
Out Parameter(s)	1 – Added Successfully 2 – Operation Failed
Result/Output	N/A

column(s)	
Target Screen/Area	Project Details (Apply Now Button Click Pop up)
Note	N/A



Write stored procedure to get all the Images of the Particular Project

Procedure Name	usp_getAllImagesOfProject
Description	Get all the Images of the Particular Project
Input Parameter(s)	1. Project Id – INT
Out Parameter(s)	N/A
Result/Output column(s)	Project Images Info: 1. Image ID 2. Project ID 3. Image
Target Screen/Area	Project Details (View Photos Button Click)
Note	N/A

FAQ



[How are projects chosen for Volunteer Overseas?](#)



[Can I get in touch with other volunteers who have been on these projects?](#)



[What happens after I apply for a program?](#)



[When will I hear if I'm accepted into a volunteer program?](#)



[Am I locked into a start date or project length, or can I change either](#)



Write a Stored Procedure to Get Frequently Asked Questions

Procedure Name	usp_getFAQs
Description	Get all the FAQs
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	FAQ Info: 1. ID 2. Question 3. Answer 4. Sequence number
Target Screen/Area	FAQ Page
Note	N/A

Search Screen

Volunteer Overseas

HOW IT WORKS | CONTACT US | Login

Cause: Volunteer Teach Intern

Country/Continent: Search Country/Continent

Activity: Animal conversation

More filters 

Start date (range): Duration: Minimum Age:

Start Date From: month dd yyyy Start Date To: month dd yyyy Duration: 1 week - 10 weeks Minimum Age: -

See results

Volunteer with Tigers
Love Volunteers
\$215/week - 1-12 weeks duration

Volunteer with Tigers
Love Volunteers
\$215/week - 1-12 weeks duration

Volunteer with Tigers
Love Volunteers
\$215/week - 1-12 weeks duration

LOREM IPSUM  LOREM IPSUM  LOREM IPSUM 

Write a stored procedure to get Projects based on Applied filters.

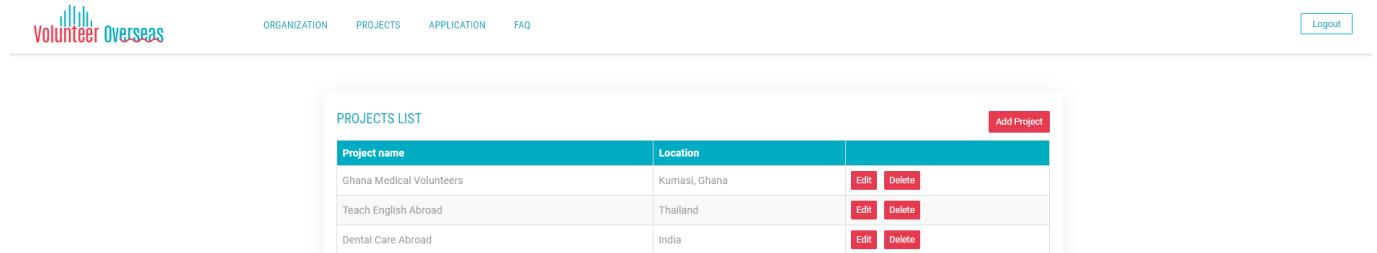
Procedure Name	u_getProjectsByFilter
Description	List out all active Projects based on Applied Filters
Input Parameter(s)	<ol style="list-style-type: none"> CategoryIds – VARCHAR(500) – Comma separated CountryID – INT ActivityID – INT StartDateFrom – DATETIME StartDateTo – DATETIME DurationFrom – INT DurationTo – INT MinAge – INT Page Number – INT (Default 1) Records per Page – INT (Default 10)
Out Parameter(s)	N/A
Result/Output column(s)	<p>Project Info:</p> <ol style="list-style-type: none"> Project Id Project Name Organization Name Project Cost Project Duration Project Images TotalRecords
Target Screen/Area	Search Result Page

Note	Purpose: To get active Projects based on applied filters with Pagination. *List out only Active projects
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FOR BACK-END

Login

Please refer the **Login section** in Front End. Once the user will Log in, he'll directly be redirected to the Back End Home Page.



The screenshot shows the 'PROJECTS LIST' section of the 'Volunteer Overseas' application. At the top right is a red 'Add Project' button. Below it is a table with three rows of project data:

Project name	Location	
Ghana Medical Volunteers	Kumasi, Ghana	Edit Delete
Teach English Abroad	Thailand	Edit Delete
Dental Care Abroad	India	Edit Delete

Manage Organization (Only for Super Admin user)

There will be Organization List screen where all the organizations will be listed. For reference, see below screen capture.

PROJECTS LIST			Add Project
Project name	Location		
Ghana Medical Volunteers	Kumasi, Ghana	Edit	Delete
Teach English Abroad	Thailand	Edit	Delete
Dental Care Abroad	India	Edit	Delete
Ghana Medical Volunteers	Kumasi, Ghana	Edit	Delete
Teach English Abroad	Thailand	Edit	Delete
Dental Care Abroad	India	Edit	Delete
Ghana Medical Volunteers	Kumasi, Ghana	Edit	Delete
Teach English Abroad	Thailand	Edit	Delete
Dental Care Abroad	India	Edit	Delete

< 1 2 3 4 >

On Add Organization or Edit Organization button click, a form will be opened in which user will have to insert the data and click on the Save button. Please refer the below screen capture.

Form Elements

Textbox	Drop down
<input type="text" value="Search Country"/>	<input type="text" value="Animal conversation"/>
Textbox with icon	Check box
<input type="text" value="mm/dd/yy"/>	<input checked="" type="checkbox"/> Volunteer <input type="checkbox"/> Teach <input type="checkbox"/> Intern
Radio button	
<input checked="" type="radio"/> Volunteer <input type="radio"/> Teach <input type="radio"/> Intern	
Textarea	
<input type="text" value="Textarea"/>	
	Form Button

Write a stored procedure to get all the organization

Procedure Name	usp_getAllOrganizations
Description	Get all the organizations
Input Parameter(s)	N/A
Out Parameter(s)	N/A
Result/Output column(s)	<ul style="list-style-type: none"> 1. Organization ID 2. Organization Name 3. Email ID 4. Logo 5. Description 6. Website 7. Contact Name
Target Screen/Area	Organizations List (For Super Admin)
Note	N/A

Write a stored procedure to Insert or Update the organization in the database.

Procedure Name	usp_addUpdateOrganization
Description	Add/Update Organization details
Input Parameter(s)	<ul style="list-style-type: none"> 1. Organization Name – VARCHAR (Column Size whatever you define in table) 2. Email ID – VARCHAR (Column Size whatever you define in table) 3. Password – VARCHAR(Column Size whatever you define in table) 4. OrganizationID – INT (Default 0) * 5. Mode – TINYINT (1- Add Organization & 2 – Update Organization)*
Out Parameter(s)	<ul style="list-style-type: none"> 1 – Added/Updated Successfully 2 – Operation Failed
Result/Output column(s)	N/A
Target Screen/Area	Add/Update Organization (For Super Admin)
Note	N/A

Write a stored procedure to delete the organization from the database

Procedure Name	usp_deleteOrganization
Description	Delete organization details
Input Parameter(s)	<ul style="list-style-type: none"> 1. Organization Id – INT

Out Parameter(s)	1 – Deleted Successfully 2 – Operation Failed
Result/Output column(s)	N/A
Target Screen/Area	Organization (For Super Admin)
Note	N/A

Organization (Only for Organization user)

Write a stored procedure to get all the details of an organization

Procedure Name	usp_getOrganizationsDetails
Description	Get all the details of an Organization
Input Parameter(s)	1. Organization ID
Out Parameter(s)	N/A
Result/Output column(s)	1. Organization Name 2. Email ID 3. Logo 4. Description 5. Website 6. Contact Name
Target Screen/Area	Organizations List (For Super Admin)
Note	N/A

Write a stored procedure to Update organization profile

Procedure Name	usp_updateOrganizationProfile
Description	Add/Update Organization details
Input Parameter(s)	1. Organization Name – VARCHAR (Column Size whatever you define in table) 2. Email ID – VARCHAR (Column Size whatever you define in table) 3. Password – VARCHAR (Column Size whatever you define in table) 4. Logo – VARCHAR (Column Size whatever you define in table) 5. Description – VARCHAR (Column Size whatever you define in table) 6. Website – VARCHAR (Column Size whatever you define in table) 7. Contact Name – Logo – VARCHAR (Column Size whatever you define in table) 8. Organization ID – INT (Default 0) * 9. Mode – TINY INT (1- Add Organization & 2 – Update Organization)*
Out Parameter(s)	1 – Updated Successfully 2 – Operation Failed
Result/Output column(s)	N/A
Target Screen/Area	Organization (For Organization User)
Note	N/A

Project List

There will be Projects List screen where all the projects will be listed. For reference, see below screen capture.

PROJECTS LIST			Add Project
Project name	Location		
Ghana Medical Volunteers	Kumasi, Ghana	Edit	Delete
Teach English Abroad	Thailand	Edit	Delete
Dental Care Abroad	India	Edit	Delete
Ghana Medical Volunteers	Kumasi, Ghana	Edit	Delete
Teach English Abroad	Thailand	Edit	Delete
Dental Care Abroad	India	Edit	Delete
Ghana Medical Volunteers	Kumasi, Ghana	Edit	Delete
Teach English Abroad	Thailand	Edit	Delete
Dental Care Abroad	India	Edit	Delete

< 1 2 3 4 >

On Add Projects or Edit Projects button click, a form will be opened in which user will have to insert the data and click on the Save button. Please refer the below screen capture.

Form Elements

Textbox

Drop down

Textbox with icon

Check box

Volunteer Teach Intern

Radio button

Volunteer Teach Intern

Textarea

Form Button

Write a stored procedure to get all the projects

Procedure Name	usp_getAllProjects
Description	Get all the Projects
Input Parameter(s)	1. Organization ID – INT (Default 0)
Out Parameter(s)	N/A
Result/Output column(s)	1. Project Id 2. Project Name 3. Project Country 4. Project City 5. Project Organization Name 6. Project Min Age 7. Project Max Age 8. Project Duration 9. Project Cost 10. Project Organization Logo 11. Volunteer Work Address 12. Volunteer House Address 13. Nearest Airport Address 14. Project Overview Description 15. Project Impact Description 16. Project Accommodation Description 17. Project Video URL 18. Cost Description 19. Project Included Things 20. Project Not Included Things 21. Project Start Date Description 22. Project Start Dates 23. Organization Description
Target Screen/Area	Projects List
Note	If organization id will not get passed then return all the projects (i.e. for super admin user) otherwise return projects where organization id matches (i.e. for organization user)

Write a stored procedure to Insert or Update the Project in the database.

Procedure Name	usp_addUpdateProject
Description	Add/Update Organization details
Input Parameter(s)	1. Project Name – VARCHAR (Column Size whatever you define in table)

	<ol style="list-style-type: none"> 2. Project Country – INT 3. Project City – INT 4. Project Organization Name – VARCHAR (Column Size whatever you define in table) 5. Project Min Age – INT 6. Project Max Age – INT 7. Project Duration – INT 8. Project Cost – DECIMAL(18,2) 9. Project Organization Logo – VARCHAR (Column Size whatever you define in table) 10. Volunteer Work Address – VARCHAR (Column Size whatever you define in table) 11. Volunteer House Address – VARCHAR (Column Size whatever you define in table) 12. Nearest Airport Address – VARCHAR (Column Size whatever you define in table) 13. Project Overview Description – VARCHAR (Column Size whatever you define in table) 14. Project Impact Description – VARCHAR (Column Size whatever you define in table) 15. Project Accommodation Description – VARCHAR (Column Size whatever you define in table) 16. Project Video URL – VARCHAR (Column Size whatever you define in table) 17. Cost Description – VARCHAR (Column Size whatever you define in table) 18. Project Included Things – VARCHAR (Column Size whatever you define in table) (Comma Separated) 19. Project Not Included Things – VARCHAR (Column Size whatever you define in table) (Comma Separated) 20. Project Start Date Description – VARCHAR (Column Size whatever you define in table) 21. Project Start Dates – VARCHAR (Column Size whatever you define in table) (Comma Separated) 22. Organization Description – VARCHAR (Column Size whatever you define in table) 23. Project ID – INT (Default 0) *
Out Parameter(s)	1 – Added/Updated Successfully 2 – Operation Failed
Result/Output column(s)	N/A
Target Screen/Area	Add/Update Project
Note	If project ID will be passed 0 then Add the new project otherwise

	update the Project with provided ID
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Write a stored procedure to delete the organization from the database

Procedure Name	usp_deleteProject
Description	Delete Project details
Input Parameter(s)	1. Project Id – INT
Out Parameter(s)	1 – Deleted Successfully 2 – Operation Failed
Result/Output column(s)	N/A
Target Screen/Area	Project List
Note	N/A

Application List

Write a stored procedure to get all the applications.

Procedure Name	usp_getAllApplications
Description	Get all the Applications
Input Parameter(s)	1. Organization ID – INT (Default 0)
Out Parameter(s)	N/A
Result/Output column(s)	<ul style="list-style-type: none"> 1. Application Id 2. Application Name 3. Project Start Date 4. Duration 5. Email ID 6. Phone Number 7. Project ID 8. Created Date 9. Last Updated Date
Target Screen/Area	Application List
Note	If organization id will not get passed then return all the applications (i.e. for super admin user) otherwise return applications where organization id matches (i.e. for organization user)

FAQ

Write a stored procedure to get all the Frequently Asked Questions.

Please refer this table: [Get All FAQs](#)

Write a stored procedure to Add/Update Frequently asked questions

Procedure Name	usp_addUpdateFAQ
Description	Add/Update FAQ
Input Parameter(s)	<ol style="list-style-type: none"> 1. FAQ Question – VARCHAR (Column Size whatever you define in table) 2. FAQ Answer – VARCHAR (Column Size whatever you define in table) 3. Sequence Number – INT 4. ID – INT (Default 0) *
Out Parameter(s)	1 – Added/Updated Successfully 2 – Operation Failed
Result/Output column(s)	N/A
Target Screen/Area	FAQ
Note	If ID will be passed 0 then Add the new FAQ otherwise update the FAQ with provided ID

General Practice Queries

1. Write a function to get total cost based on unit duration & cost.
2. Create a table call Audit_log and write a trigger to insert record into Audit_log while Insert new application.
3. Create a view to get complete project details.
4. Create a view to get organization wise projects.
5. Write a cursor to list out all the users of an application.