Short Description

This projects represents hierarchy of an Organization. The reporting structure of employees is represented in a customized data structure. Escalation service is provided for unresolved issues. Add, Remove, Search - employee and Print Organization Structure is implemented.

STATE OF THE ART DOCUMENT

(2)Project Relevance:

1) Useful for recording - the reporting structure of an organization

2) Will help in finding reporting people to a manager and their details like - skill set, mobile number etc

3) Will help to find out manager of a given employee - in case of escalation

4) With next stage of changes - it will help to keep track of efforts, appraisals, billing, project completion status

5) With specific reporting structure - it will make employees and work accountable and reliable

Other Works in this area since last 10 years:

What we expect in 2025:

1) More and more customizations should happen in Organizational Hierarchy Projects.

2) They should be aligned with more innovative structures the new organizations are proposing.

3) They may be coming up with multiple reporting bosses concepts.

4) They should provide for dynamic project and skills mapping - and movement in the organization.

References used:

(3) Project Description:

1) Stake Holders: Employees of the organization, here ByteXL Organization is used as a case study for testing

Admin User (will work on features like add, remove employee)

HR (will track efforts, sanction leaves)

Accounts (will generate payslip)

Managers (will approve efforts and will do appraisals)

Any Other (will do escalations)

2) Business Value: This project will be of utmost value for employees of the organization as it decides their payout,

reporting bosses, task assigned and growth aspects. Any organization would like to purchase and use this

application.

3) Why is it relevant Now: As many startups are coming up who may not be aware of proper organization structure

and work ethics and professional norms. This application will help standardize many things. This will automatically

promote policy and standard working rules for the organization - in many aspects.

4) Similar such projects in the market:

(4) Individual Components and Timelines of the Project:

1) Decide scope and limitations (1 Hour)

2) Decide what different modules will form the project and their task to accomplish (1 Hour)

3) Create a BST and provide insert, delete, traversal, search functionality - on employee id of an employee (2 Hour)

4) Test the functionality in step 3 for real life structures of employees (1 Hour)

5) Provide for Add Employee - reporting to a given manager (2 Hour)

6) Provide to search for a given manager and print all his reporting people , at his level (2 Hour)

7) Provide for escalation for a given employee

a) For a given manager - provide to print his level 1 boss and level 2 boss (0.5 Hour)

b) For a given non manager employee - provide to print his level 1 boss and level 2 boss (2 Hour)

c) See that no escalation possible for owners and no second level escalation for people reporting to owners (0.5)

8) Provide for deleting a manager employee (4 Hours)

9) Provide for deleting a non manager employee (4 Hours)

(5) Educator's Template to Have:

1) Project Based Learning Overview

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Bytexl’s guided projects

Build job relevant skill sets by developing solutions to practical use cases

Bytexl’s educators have created specialised guided projects so you can practice current technology languages / softwares such as <Python, Java, Nodejs, C, C++>

Educators should create a Guided Project for students to execute on the Bytexl App. Students should be able to complete the project in a short duration of time <Example : 2 hours > and the use case chosen should enable them to attend interviews with confidence.

Educators should create a project scenario which will enhance the job relevant skills as they guide the project through with a specially created hands-on experience available on Bytexl’s app.

Note: Placeholders have been created for educators to appropriately fill in the relevant details

Guided projects should be created with the following content:

Project based learning course overview:

About the project:

Prerequisites:

What will you learn?:

Skills you will practice:

How to execute? Your learning platform:

• Practice new skills by completing job-related tasks

• No downloads or installation required. Use your Nimbus access to access all the tools.

• Practice on your desktop or laptop. This cannot be developed on your mobile phones.

Use Nimbus on Bytexl’s platform:

Learn, practice and enhance job relevant skills in just <2 hours>

• Receive detailed instructions from instructors

• Gain hands-on experience solving real-world case studies

• Enhance your confidence with solutions developed on Nimbus using the latest tools and technologies

Learn step-by-step:

In this guided project, you will find your educator giving you a walk-through to complete your project in 20 hours.

Structure for educators:

How to create the use cases for students to practice?

Instructions:

Welcome to <Title of the Project>. This is a guided project which will take about <2 hours> to complete.

Here are the course objectives and structure:

Course Objectives:

In this project we will focus on the following objectives:

• Objective 1:

• Objective 2:

• Objective 3:

By the end of this project you will be able to …………….

You will deploy the project on the Nimbus Platform using …………… tools / platforms

Course Structure:

This course is divided into 3 parts:

Course overview: This is the introductory reading material.

Project structure:

The hands on project on <Title of the project> is divided into following tasks:

Task 1:

Task 2:

Task 3:

Task 4:

Meet your educator:

Hi I am <Rajesh D. Nagawade> and I will be your instructor for your course. I have about <24 years> of experience in <computer science, C, DSA and more> . I have worked in <Wipro / 24 years of >. I also work with different business organizations <……….anything that needs to be highlighted as a part of the educator’s profile> . I have a <Bachelor’s degree in ……, Masters’ ……. in …….> . When I am not teaching I enjoy <….hobbies…. if any>. I also love <……..travel and photography………>

Welcome to the Guided Project!

About the Nimbus Platform:

Earn a Certificate: After you have completed the <Title of the Project> hands-on project, you should complete the Quiz to assess your knowledge. You will earn a certificate if you score 80 % or more

References:

Educators can access the links given below or any other resource for sample use cases and a basic understanding of how to create the project scenarios

2) About Project

3) Prerequisite

4) What To Learn Here

5) What To Practice Here

(6) Educator's Template To have:

1) Objectives

Objective A)

Objective B)

Objective C)

2) Outcomes

Outcome A)

Outcome B)

Outcome C)

(7) Components of the Project (with their description and how to use)

1) Component 1

2) Component 2

3) Component 3

4) Component 4

5) Component 5

6) Component 6

7) Component 7

(8) My Brief Profile

My name is Rajesh D. Nagawade. I am born and brought up from Pune, Maharashtra, India.

My education has been B.E. CSE and MBA with IT - both from Pune University.

I have worked all across India over last 24 years.

Meditation, Yoga, Psychology, Spirituality, Nature, Good Music - have been my personal interests beyond CSE and IT.

My Core skills are:

Programming - C, C++, Python, Java

Subjects - Theory of Computations, compilers, Data Structures, DAA, Operating Systems, Linux Systems Programming

Soft Skills - Communication Skills, Positive Thinking, Time Management, Conflict Resolution, Inter Personal

Relationship Management, Voice Modulation, Body Language

Faculty Development Programs - Paedagogy (teaching methodology), Classroom Management, BLOOM's Taxonomy,

Multiple Intelligence Theory

I have worked in various capacities like - Head of the training Dept, Corporate Manager, Deputy Registrar

I have worked in Wipro Technologies as senior consultant for 10.5 Years.

I am currently working as Subject Matter Expert for Data Structures.

(9) About Platform

C language is used for entire implementation. Many online compilers are available. Any one can be used.

But ByteXL platform supports for saving your code and project. Moreover Nimbus platform also is good. The tested

code, I will be posting on GitHub here.