



nixpend.

Intelligence based

Python Assignment

Technical Proposal

Dear

Greetings,

As a part of our selection process, we send assignments to selected candidates, and you are one of them!

In this document, you will find the assignment itself as well as detailed instructions about how to complete the assignment. Please make sure to read all the instructions as they will help you complete the assignment more successfully.

Good luck with the assignment, and I am looking forward to working with you

Sincerely,

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1 Introduction

1.1 About nixpend

nixpend comes with a rich heritage of Healthcare knowledge. nixpend's healthcare solutions stand distinctively as a best practice provider in the region.

Nixpend Healthcare Information System is a cloud-based solution that is offered only on the Cloud. Information System qualities available via Cloud solutions such as allowing easier access and installation, accommodating convenient and uncostly upgrades, and having little to nothing maintenance and operating costs, are merits that are indispensable to the future of organizational management and the increasing demand on healthcare accessibility and communication.

At nixpend, we believe an optimal healthcare delivery process is achieved by enabling the caregiver to take intelligence-based decisions in the least amount of time possible. Hence, nixpend uses reverse engineering in designing its clinical pathways and non-clinical workflows with a target of yielding zero defect processes that minimizes pending time. The end result is an Information System that is incredibly intuitive, functional, and sensible.

Our expertise in data analytics, clinical workflows, healthcare environment design in addition to other areas will support providers in improving patient outcomes, deliver better value, expand access to care, and ultimately create the future of healthcare at your organization.

1.2 Guidelines

Before you read the following pages, here are guidelines for easily getting through these kinds of questions

Read the questions very carefully

Because what is required can depend on each other, and be vigilant, small details make a difference. Also, solve the questions in order.

Do not worry

all these questions do not require any previous experience, and even as a beginner you can solve all of them, but this depends on your patience and the time you spend searching and investigating solutions, as all the questions here you will find help on the Internet, but you must search well, So, we wish you a pleasant search.

Method of response

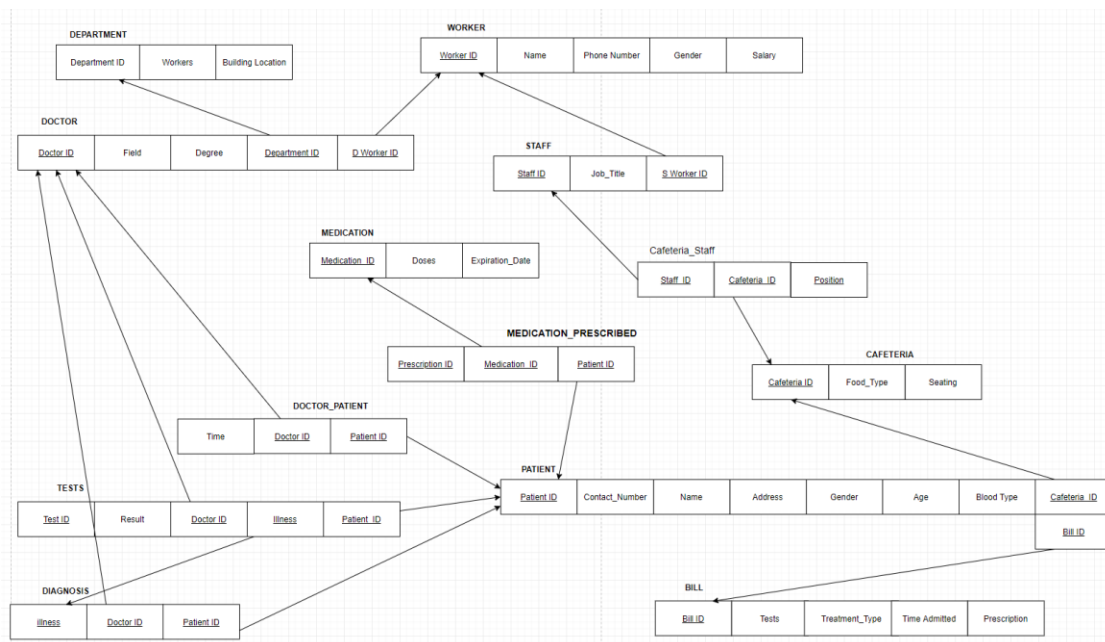
At the end of each question, you will find the task files that will be sent to us. Prepare requirements for each question and put them in a folder. Then upload it to the repository on GitHub and send us the link, so that the repository has folder for each question, inside each folder the required files mentioned at the end of the question.

Send your exam to tasks@nixpend.com , with [Nixpend Task] as Subject.

2.1 Assignment #1

- SQL

Here is EERD Model for Hospital Database:



* Write SQL Query to generate a report containing:

- Medication Prescribed
- Medication

The Report contain column show how much patient have this medication, It must be also show if the Medication have been expired Show "Expired" else Show "Active".

* Write another query to generate a report containing Doctor Information, Department and Doctor Patient Related to Doctor.

Take These Conditions in Consideration:

- Patient age must be Greater than 12 years.
- Don't show doctor Information if Time Attend in 2022 Year.
- Order by Doctor Name alphabetically descending, Patient name alphabetically ascending.

2.1.3 Expected Deliverables

File Contains your queries.

2.2 Assignment #2

2.2.1 Requirements

- HTML
- CSS
- JavaScript
- Python
- Flask

2.2.2 Assignment Description

In this section you are inquired to build a small webpage that has a **form** consisted of the following:

- Full name (Input)
- Email (Input)
- Phone number (Input)
- Submit (button)

Once the submit button is clicked, a pdf file should be generated containing a QR code of the previous data.

Note:

I would like to emphasize that using Flask API to build the backend

2.2.3 Expected Deliverables

Your project source code.