



OASIS INFOBYTE

TASK LIST





About the Company



Internship Process Flow



Instructions



Submissions



About Internship



Web Development and Designing



Android App Development



Java Development



Graphics Design



Data Science



Python Programming



Data Analytics



Get Social With Us



FAQs



ABOUT US

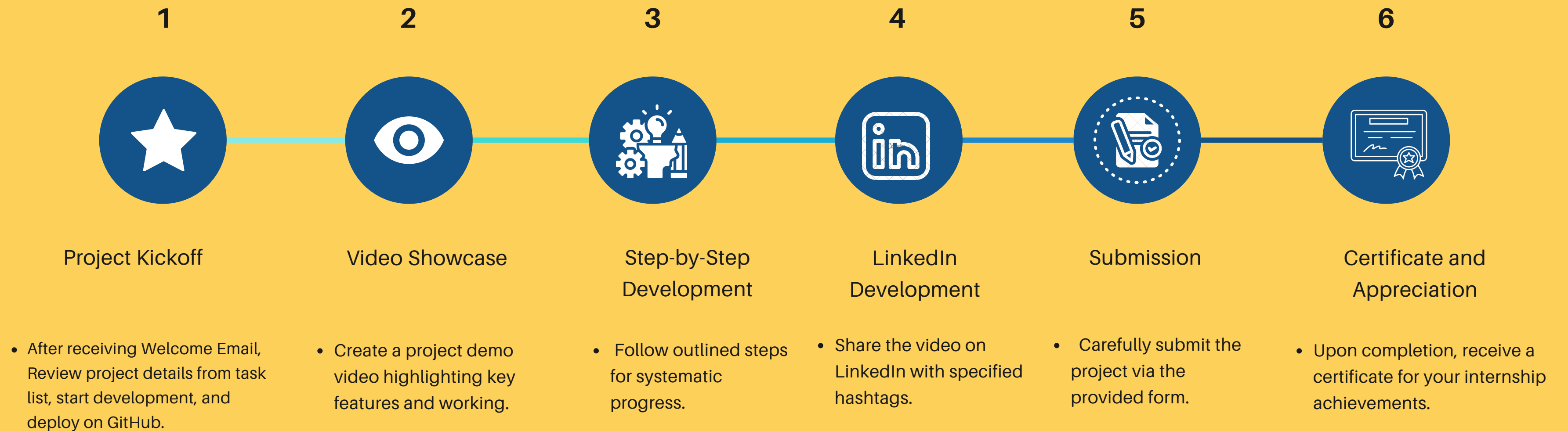
BASIC INFORMATION

OASIS INFOBYTE is a community of diverse people coming together with similar objectives and ultimate goals.

OASIS INFOBYTE is all about creating opportunities for leadership development, learning, student engagement, and fostering of shared interests. We develop enriching environments and experiences that promote students' knowledge and wellbeing.



INTERNSHIP FLOW



INSTRUCTIONS

- LinkedIn profile improvement and Resume Building [Tutorial](#) (Mandatory).
- Placement Support [Materials](#) are provided to assist in your preparation.
- For **Web development and design** internship you will need to complete any one (either Level 1 or Level 2 or Level 3) as per your convenience for successful completion of internship.
- Maintain a separate GitHub repository(name as OIBSIP for all the tasks and share the link of the GitHub repo in the task submission form(it will be given later through email).
- PEER EVALUATION watch and comment on at least two tasks videos on LinkedIn posted by fellow interns.

- A TASK SUBMISSION FORM will be shared later. Till then please continue your task.
- A [video](#) need to be created to showcase your work, demo of your effort. The video should start with by your name on first page.
- The video can be hosted on LinkedIn for proof of your work and build credibility among your peers . You can tag OASIS INFOBYTE in such posts.
- Please add #oasisinfobyte in each of your task video postings on LinkedIn, Additionally, you can also add hashtags such as #internship #webdevelopment, #datascience, #campusabmassador etc depending on your internship domain for more reach and visibility.

WORKFLOW

| | |
|--------|---|
| Step 1 | Review Project Details |
| Step 2 | Commence the Project Development |
| Step 3 | Deploy/Push on Github |
| Step 4 | Create a Video Demonstration of Project Functionality |
| Step 5 | Share the Video on LinkedIn using hashtags #oasisinfobyte,#oasisinfobytefamily.#internship.#python |
| Step 6 | Submit your project carefully in the appropriate batch submission form. |
| Step 7 | Please be patience and await the evaluation of your project; upon completion, you will receive a certificate. |

“

INSPIRING WORDS

**Learning is the only thing the
mind never exhausts, never
fears, and never regrets.**

LEONARDO DA VINCI

ABOUT THE INTERNSHIP



Completion
Certificate



Appreciation Letter
&
Recommendation
Letter



Placement
Support



Job
Opportunity



Resume And
Network
Building



OASIS INFOBYTE

Web Development and Designing

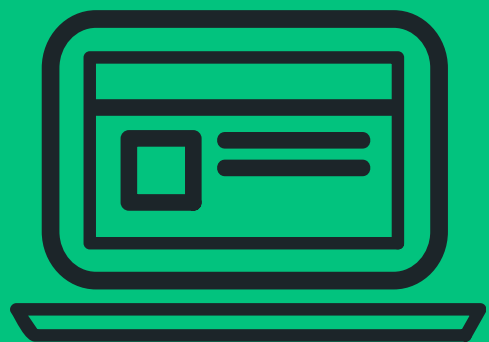
TASK LIST

For **Web development and design** internship you will need to complete any one (either Level 1 or Level 2 or Level 3) as per your convenience for successful completion of internship.



LEVEL 1

TASK 1



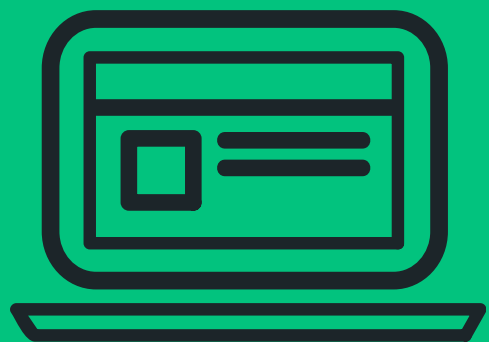
LANDING PAGE

A landing page is one of the best web development projects for beginners. This project demands a foundational understanding of HTML and CSS. You will learn how to add columns, divide sections, arrange items, add headers, footers. Most importantly, you will use your creativity to make the page look impressive. The alignments, the padding, the color palette, boxes and all the other elements on the page require attention. Use CSS carefully to make sure the elements on the page do not overlap.

For Demo [Click](#)

LEVEL 1

TASK 2



PORTFOLIO

You can create a personal portfolio with the basic skills in CSS and HTML. This is yet again, one of the most common projects on web development for beginners. In a personal portfolio, you get to show a wide range of samples and skills and add your resume. You can add an image at the top where you can introduce yourself; below that, you can add contact information.

For Demo [Click](#)

LEVEL 1

TASK 3



TEMPERATURE CONVERTER WEBSITE

The user will input a temperature in either Fahrenheit or Celsius and press a "convert" button. The converted temperature will then be displayed with the correct unit.

Your UI should include four main elements:

- Input field for the user to type in their temperature - don't forget to validate that the input is a number!
- Dropdown menu or radio button for the user to choose if they are inputting in Celsius or Fahrenheit
- "Convert" button to trigger the temperature conversion
- Display area for the final converted temperature and unit

For an extra challenge: You can add in a third conversion option to convert from and to Kelvin as well.

For Demo [Click](#)

LEVEL 2

TASK 1



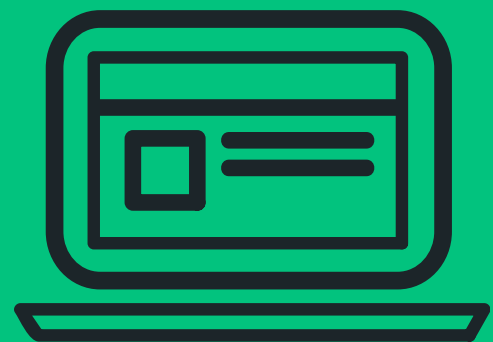
CALCULATOR

It takes a little skill to create a calculator with basic mathematical functionalities using CSS, HTML, and JavaScript. Calculators require an interactive interface to perform basic functions such as addition, subtraction, division, and multiplication. It will need a display screen to display the user's input and give the results. The grid system in CSS is for the alignments of buttons on the calculator. The additional tools you need to build a fully functional calculator include eventListeners, if-else statements, operators, loops, and so on.

For Demo [Click](#)

LEVEL 2

TASK 2



TRIBUTE PAGE

With a basic understanding of HTML and CSS, you can easily create a page for someone you admire. Write about what you adore in the person, add images, give an appealing layout, use paragraphs appropriately. You can also play around with different font styles and background colors.

For demo [Click](#)

LEVEL 2

TASK 3



A BASIC TO-DO WEBAPP

Develop a basic to-do app that enables a user to add daily tasks.

The to-do web app must allow users to add new items to a list, and items added to a list must be visible. Also, a user can mark a task “complete” upon its successful completion, and these completed tasks must appear on a separate list, say Completed Tasks.

You can also add a separate section titled Pending Tasks that will list all the tasks that require completion. In such a case, the to-do list will be a union of the Pending Tasks list and the Completed Tasks list. Irrespective of the list, a user must be able to delete or edit tasks from it.

To further increase the web app’s complexity or make it more detailed, you can add the date and time when a task is added and/or completed.

For demo [Click](#)

LEVEL 2

TASK 4



LOGIN AUTHENTICATION

Create a simple login authentication system using a programming language of your choice (e.g., Python, JavaScript, Java, etc.) that allows users to register, login, and access a secured page.

For more details [Click Here](#)

LEVEL 3

TASK



PIZZA DELIVERY APPLICATION

1. Create a full stack app using React, MongoDB, and Nodejs.
2. Create an admin login and a user login with complete registration, authorization, email verification, and forgot password system.
3. After logging in, users should be able to view the available pizza varieties in the dashboard.
4. Users can start making the custom pizza with the following flow.
 - Choose any pizza base from 5 options.
 - Next, choose any sauce from 5 options.
 - Select a cheese type .
 - Opt veggies from many options.
5. Integrate the razor pay checkout for payment. Create a dummy account and integrate the test mode. In test mode, on clicking success, place and confirm the order.
6. In the admin login, create a mini inventory management system keeping track of available pizza base, sauce, cheese, veggies, and meat.
7. After an order, update the necessary changes in stock and present them in the admin dashboard.
8. Schedule a notification to the admin email id when the available stock goes beyond the threshold value. (e.g. the total pizza base is below 20 after so many consecutive orders, trigger an email)
9. Admin must receive the order and change the status of the pizza- as order received, In the kitchen, and Sent to delivery.
10. For every update from the admin, the status change must be reflected in the user dashboard



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Android App Development

TASK LIST

For Android **Development** internship you will need to complete atleast 3 tasks for successful completion of internship.



TASK 1



UNIT CONVERTER APPLICATION

This application will aim at helping its users by converting the units from one another. This app will take input from the user and convert it to the desired unit and give the result. For example, it will be able to convert a value in centimeters to Meters or grams to kilograms and vice versa.

To develop this application, Android Studio is required. The knowledge of XML would be required for the user interface and the Java programming for the application's conversion functionality.

TASK 2



TO DO APP

This application as the name suggests will be a To-Do list holding app. It'll store the users schedules and their upcoming meetings or events. In this application, users will be enabled to write their important notes as well. To make it safe, provide a login page before the user can access it.

So, this app will have a login page, sign-up page, logout system, and the area to write their tasks, events, or important notes. You can build it in android studio using Java and XML at ease. Using XML you can build the user interface as user-friendly as you can. And to store the users' data, you can use SQLite enabling the users to even delete the data permanently.

TASK 3



CALCULATOR

A calculator will be an easy application if you have just learned Android and coding for Java. This Application will simply take the input values and the operation to be performed from the users. After taking the input itll return the results to them on the screen. This is a really easy application and doesn't need use of any particular package.

TASK 4



QUIZ APPLICATION

Here you can provide the users with Quiz on various general knowledge topics. These practices will ensure that you're able to set the layouts properly and slowly increase your pace of learning the Android application development. In this you'll learn to use various Layout components at the same time understanding them better.

In the app, questions would be asked and answers would be shown as multiple choices. The user selects the answer and gets shown on the screen if the answers are correct. In the end the final marks would be shown to the users.

TASK 5



STOP WATCH

A stopwatch is another simple android project idea that will work the same as a normal handheld timepiece that measures the time elapsed between its activation and deactivation. This application will have three buttons that are: start, stop, and hold.



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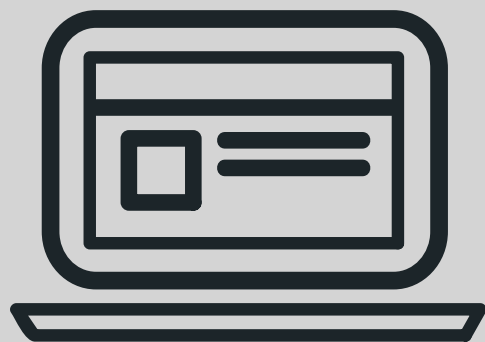
Java Development

TASK LIST

For **Java Development** internship you will need to complete atleast 2 tasks for successful completion of internship.



TASK 1



ONLINE RESERVATION SYSTEM

This Online Reservation System will include all the necessary fields which are required during online reservation system. This Online Reservation System will be easy to use and can be used by any person. The basic idea behind this project is to save data in a central database which can be accessed by any authorize person to get information and saves time and burden which are being faced by their customers.

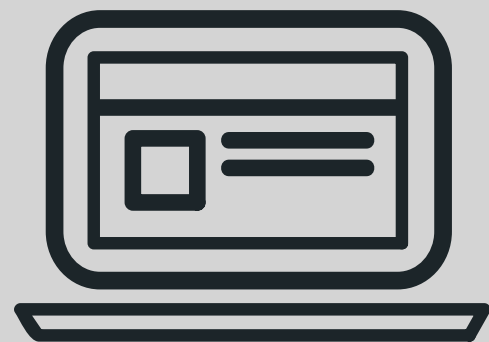
Modules

Login Form – To access this Online Reservation System, each user should have a valid login id and password. After providing the correct login id and password, users will able to access the main system.

Reservation System – Under reservation form users will have to fill the necessary details such as their basic details, train number, train name will automatically come in the box, class type, date of journey, from (place) to destination and after that, users will have to press insert button.

Cancellation Form – If passengers want to cancel their tickets then they have to provide their PNR number and after submitting it, this will display the entire information related to that particular PNR number. If users want to confirm their cancellation, in this case they have to press OK button.

TASK 2



NUMBER GUESSING GAME

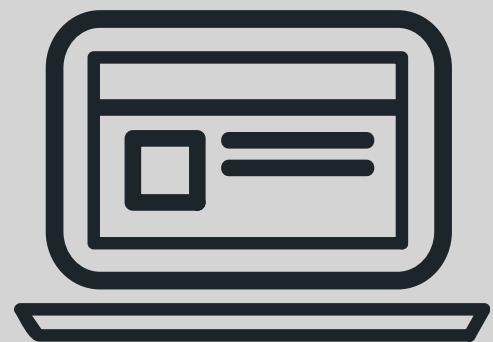
The fun and easy project “Guess the Number” is a short Java project that allows the user to guess the number generated by the computer & involves the following steps:

- 1.The system generates a random number from a given range, say 1 to 100.
- 2.The user is prompted to enter their given number in a displayed dialogue box.
- 3.The computer then tells if the entered number matches the guesses number or it is higher/lower than the generated number.
- 4.The game continues under the user guessing the number.

You can also incorporate further details as:

- Limiting the number of attempts.
- Adding more rounds.
- Displaying score.
- Giving points based on the number of attempts.

TASK 3



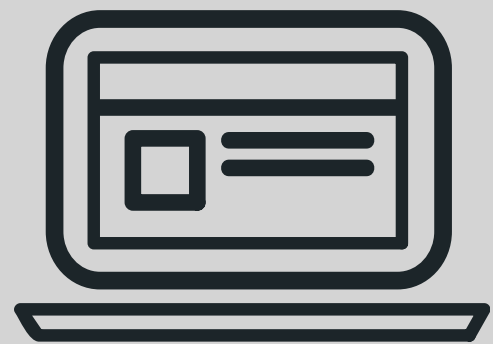
ATM INTERFACE

We have all come across ATMs in our cities and it is built on Java. This complex project consists of five different classes and is a console-based application. When the system starts the user is prompted with user id and user pin. On entering the details successfully, then ATM functionalities are unlocked. The project allows to perform following operations:

1. Transactions History
2. Withdraw
3. Deposit
4. Transfer
5. Quit

For Demo Click

TASK 4

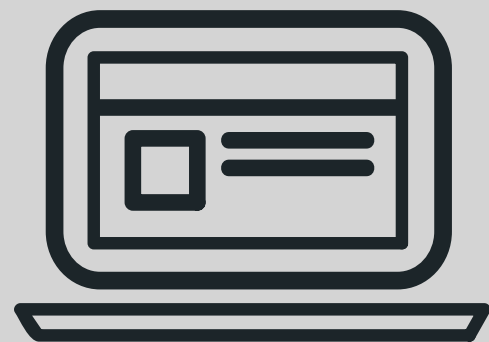


ONLINE EXAMINATION

The project should be capable of the following functionalities.

- Login
- Update Profile and Password
- Selecting answers for MCQs
- Timer and auto submit
- Closing session and Logout

TASK 5



DIGITAL LIBRARY MANAGEMENT

- The main objective of this project is to provide a complete automated Library by digitizing its each and every functionality. Starting from the book-keeping, issuing of books, fine generation, advance booking and report generation all will be accomplished under one single project. The project will be a web based project with a database server responsible for maintaining every single detail of the Library. It has a very user friendly interface which can easily be operated by any non-technical person.

There are essentially two modules of this software;

- Admin module: Admin will have complete control over the system. Admin has permissions to update, delete or modify any existing record or make a new entry (books and members).
- Users: The normal users enjoy only limited privileges. They have a view access to the books. They can browse through the categories, search for a particular book, return and issue a book. They are also provided with an email option in case of a query.



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Data Science

TASK LIST

For **Data Science** internship you will need to complete atleast 3 tasks for successful completion of internship.



TASK 1



IRIS FLOWER CLASSIFICATION

Iris flower has three species; setosa, versicolor, and virginica, which differs according to their measurements. Now assume that you have the measurements of the iris flowers according to their species, and here your task is to train a machine learning model that can learn from the measurements of the iris species and classify them.

Although the Scikit-learn library provides a dataset for iris flower classification, you can also download the same [dataset](#) from here for the task of iris flower classification with Machine Learning.

DOWNLOAD DATASET FROM [HERE](#)

TASK 2



UNEMPLOYMENT ANALYSIS WITH PYTHON

Unemployment is measured by the unemployment rate which is the number of people who are unemployed as a percentage of the total labour force. We have seen a sharp increase in the unemployment rate during Covid-19, so analyzing the unemployment rate can be a good data science project.

DOWNLOAD DATASET FROM [HERE](#)

TASK 3



CAR PRICE PREDICTION WITH MACHINE LEARNING

The price of a car depends on a lot of factors like the goodwill of the brand of the car, features of the car, horsepower and the mileage it gives and many more. Car price prediction is one of the major research areas in machine learning. So if you want to learn how to train a car price prediction model then this project is for you.

DOWNLOAD DATASET FROM [HERE](#)

TASK 4



EMAIL SPAM DETECTION WITH MACHINE LEARNING

We've all been the recipient of spam emails before. Spam mail, or junk mail, is a type of email that is sent to a massive number of users at one time, frequently containing cryptic messages, scams, or most dangerously, phishing content.

In this Project, use Python to build an email spam detector. Then, use machine learning to train the spam detector to recognize and classify emails into spam and non-spam. Let's get started!

DOWNLOAD DATASET FROM [HERE](#)

TASK 5



SALES PREDICTION USING PYTHON

Sales prediction means predicting how much of a product people will buy based on factors such as the amount you spend to advertise your product, the segment of people you advertise for, or the platform you are advertising on about your product.

Typically, a product and service-based business always need their Data Scientist to predict their future sales with every step they take to manipulate the cost of advertising their product. So let's start the task of sales prediction with machine learning using Python.

DOWNLOAD DATASET FROM [HERE](#)



OASIS INFOBYTE

Graphics Design

TASK LIST

For **Graphics Design** internship you will need to complete atleast 4 tasks for successful completion of internship.



TASK 1



POSTERS AND FLIERS

Digital posters and flyers have to be visually appealing while satisfactorily communicating a message to the public.

Creating posters and fliers for public relations and marketing campaigns will expose you to scaling and proper design layouts in digital platforms.

For demo [Click](#)

TASK 2



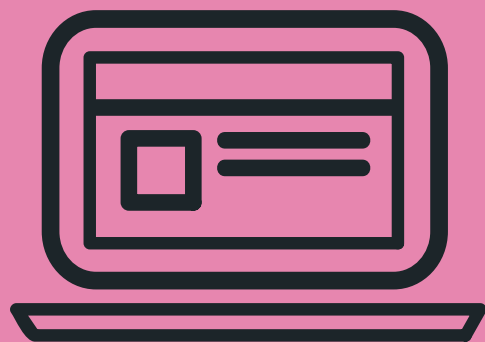
LOGO

Logos are a representation of what a brand or organization stands for. They speak volumes about what companies do and subtly express their values. Professionals often follow the Keep It Simple, Stupid (KISS) approach while designing logos, focusing on minimalism and the business's core values. This fundamental principle is suggestive of the power of simplicity in graphic design. For demo [Click](#)

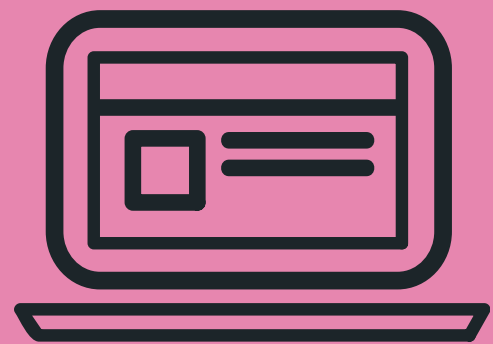
TASK 3

BUSINESS CARDS

This design challenge will allow you to practice the skills mentioned above. Every business relies on business cards as a means of introduction. They are also an expression of the company's branding. Therefore, it is vital to capture the company's essence through excellent typography and some ingenuity. For demo [Click](#)



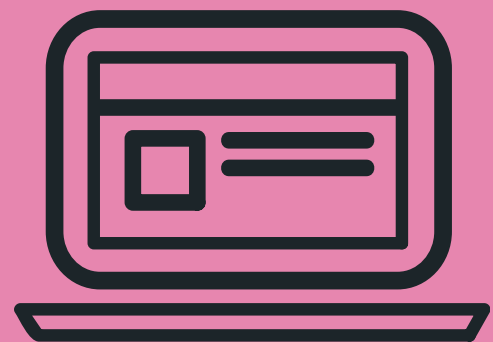
TASK 4



INFOGRAPHICS

Infographics employ pictures, data visualizations, typography, and statistical graphics to tell a straightforward story or present information. Working on an infographic will give you experience with important tools like Canva and Venngage and allow you to exercise your creativity as you think of ways to represent information in a way that is visually attractive, impactful, and effective. For demo [Click](#)

TASK 5



MAGAZINES AND BROCHURES

Designing the look and feel of a magazine or brochure is a complex project. It involves a range of elements, including advertising, visual representation, photography, art, and graphic design. Working on a magazine design will expose you to the design principles and standards used in print media. For demo [Click](#)



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Python Programming

Click [Here](#)



TASK LIST LINK

For Python Programming internship you will need to complete atleast 3 tasks for successful completion of internship.



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Data Analytics

Click Here

 **TASK LIST LINK**

For Data Analytics internship you will need to complete atleast 3 tasks for successful completion of internship.



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ASK US FOR HELP!



THE PURPOSE OF
THIS INTERNSHIP IS
TO LEARN AND GROW

PERSONAL DEVELOPMENT

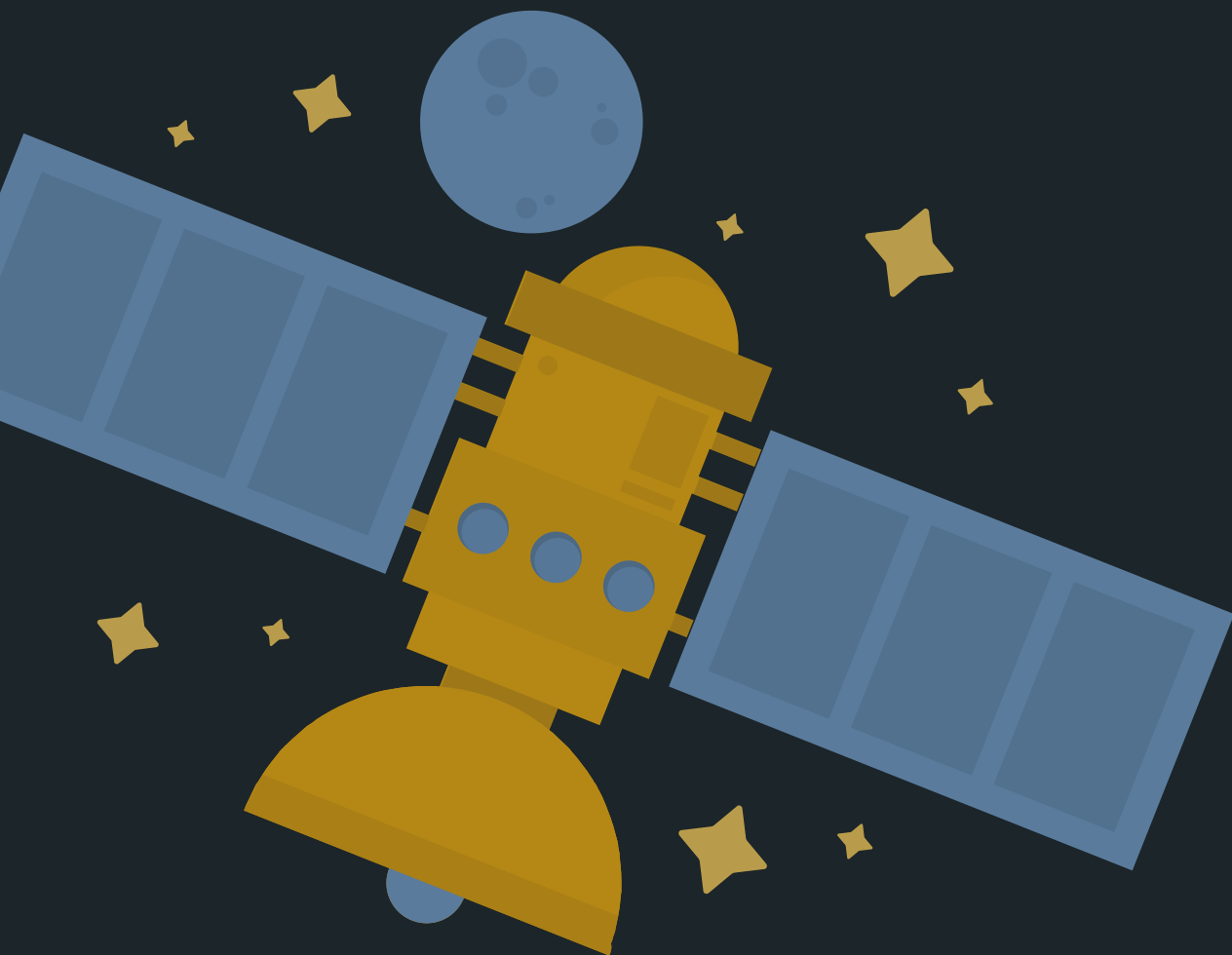
THIS INTERNSHIP
WILL HELP YOU TO
ENHANCE YOUR
EMPLOYABILITY
PROSPECTS AND
RAISE YOUR
CONFIDENCE.



WE DON'T WANT TO
DICTATE YOU.IT IS UP
TO YOU TO SEEK
GUIDANCE.

THE TASKS GIVEN
MAY SEEM VERY EASY
OR VERY DIFFICULT.
WE EXPECT THAT
YOU GIVE
PROFESSIONAL DUE
REGARD TO THE
TASKS.

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