



# Projects Catalog.....

2021





“ Enhance people's working lives  
through the best technologies.”



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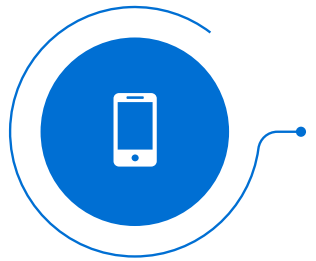
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# 1- About Us

Diginov is established by a group of ambitious youth, with local national expertise, to assist in the transfer of knowledge and adopting best practices in the fields of technology, Digital Transformation & Automation, security, professional practice, R&D and applied sciences as well as to provide solutions and applications including IOT « Internet of things ». Last but not least, we have the capacity and expertise to be the system integrator for innovative shared government services.



## 2- Our Services



### MOBILE

Our main focus when it comes to mobile is to provide robustness and tolerance to applications.



### WEB

What could be more important than responsive and light web apps that can look perfect on all browsers.



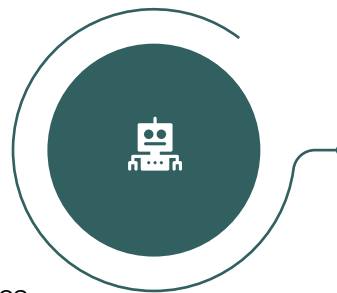
### ERP

Our work is user-centric. We identify objectives, resources and risks, then we build solutions based on them.



### BI

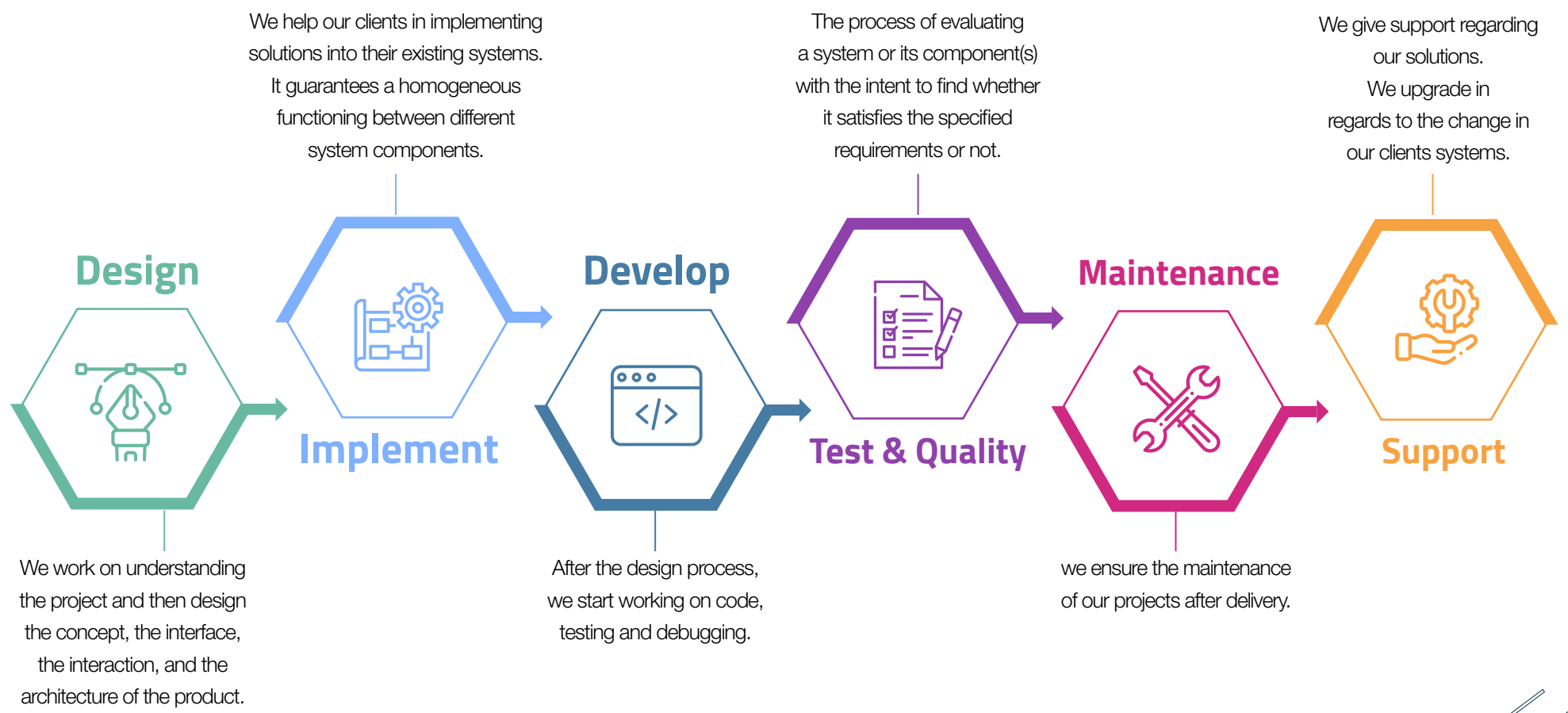
Encompasses a wide variety of tools, applications and methodologies that enable organizations to collect data from internal systems and external sources.



### Robotics

Our R&D team works on exploring new ideas, designing concepts, optimizing, real world simulations & implementing.

# 3- How We Do It






# Projects 2021


# Web Projects






## 01. Abaied Design

 **Needed Profiles**  
1 profile

 **Technologies**  
Prestashop

 **Responsible**  
Ramzi Touati

 **Duration**  
4-6 Months

### Description

- ✓ Abaid design is an e-commerce site in Tunisia.
- ✓ The site was founded in an innovative framework in order to meet the new consumer trends.
- ✓ This site mainly integrates the products of the house such as furnishings, equipment, comfort, lighting, decoration, art, Gifts and also Accessories.
- ✓ Our site gives the example of creation, the manufacture of advertising panels and the advertising sign and shelters like car and garden.
- ✓ It's an amazing opportunity to make the house more comfortable and more beautiful than before with the touch of expertise and shrewdness of our site work.

## 02. Dev Learn

### Needed Profiles

2 profiles



### Technologies

.Net core 5 / SQL Server  
CQRS / DDD



### Responsible

Assaad Ghabi



### Duration

4-6 Months

### Description

- ✓ The intern will have the opportunity to carry out a comprehensive list of activities, from creating and adapting educational content to publishing and building it on IIS server, which will definitely enrich the overall experience. The main tasks include :
- ✓ Gather information and course elements from members, internal departments, research institutions, and others.
- ✓ Develop and design learning portal, coordinate, and review educational content, and incorporate.
- ✓ Support the deployment of learning programs including uploading and updating courseware and curricula, training assignments, learner notification text and rules.
- ✓ Ensure that participants are registered for Education and Training events and performs reconciliation.
- ✓ Build online courses by following a course design (plan) and according to best educational and usability practices
- ✓ Writing Unit tests and automated tests scripts

## 03. Machine Learning

### Needed Profiles

1 profile

### Technologies

Microsoft

### Responsible

Nourredine Ammar

### Duration

4-6 Months

### Description

- ✓ The subject is to implement a solution that will allow you to interact with chatbot agent. There role is to reduce navigation in the application to look for information.
- ✓ The project must meet the following requirements :
- ✓ Real-time conversation with contacts.
- ✓ Sending media files in real time (Video, Audio, IMAGES).
- ✓ Security of information exchange.
- ✓ Encryption of messages and media sent.
- ✓ Integration of the solution with other projects (Reuse as a configurable module).

## 04. Translate App

### Needed Profiles

1 profile

### Technologies

Laravel  
Machine learning

### Responsible

Nayrouz Boussoffara

### Duration

4-6 Months

### Description

✓ A platform that will help identify the localization strings in a project and offers the possibility to add and edit languages.

#### **The objectif is :**

- ✓ Automatically detect project type and programming language.
- ✓ Create project localization files automatically.
- ✓ Add and edit localization string.

# 05. Social Marketing

## Needed Profiles

1 profile

## Technologies

Odoo10 / Python

## Responsible

Sirine Naamoun

## Duration

4-6 Months


## Description


- ✓ Solution enables users to streamline communication with clients and stay on top of their social media presence.
- ✓ Operate social media accounts within Odoo interface.
- ✓ Manage streams tab, users can get their choice of social media platforms to pick.
- ✓ Once an account is created, its information will be populated in the feed.
- ✓ Allows you to carry out any action that could be done on the social media account ( like,comment,share)

Make statistics for social accounts.


- ✓ Writing Unit tests and automated tests scripts

# 06. Airline Booking System

 **Needed Profiles**  
1 profile

 **Technologies**  
Angular / Laravel

 **Responsible**  
Karim Hamdi

 **Duration**  
4-6 Months


## Description

✓ web solution for airline online booking (Booking Engine) :

**The project objectif is to :**

- ✓ Find and Compare flights.
- ✓ send notifications about updates on flight times.
- ✓ Make online flight bookings.
- ✓ Manage family bookings
- ✓ Writing Unit tests and automated tests scripts

## 07. E-learning

 **Needed Profiles**  
1 profile




 **Technologies**  
Odoo10 / Python



 **Responsible**  
Sirine Naamoun



 **Duration**  
4-6 Months

### ○○○○○ Description

- ✓ Development of an e-Learning platform to set up a proper online training environment.
- ✓ This solution is a management tool for enabling community learning, sharing knowledge and inspiring others.
- ✓ Invite teachers or trainer to put their courses online then you can approve or disapprove those courses.
- ✓ Let student pick his course and pay for it
- ✓ Follow student progress
- ✓ Boost learning with assessments and certifications
- ✓ Training can be for surfer or for employees

## 08. Business Intelligence

### Needed Profiles

1 profile



### Technologies

odoo / python / BI



### Responsible

Nayrouz Boussoffara



### Duration

4-6 Months

### ○○○○○ Description

✓ Smart platform designed to automate processes that is related to strategic planning, project management, quality management, excellence management and performance management. Furthermore, the platform can be accessed via computers and mobile phones.

### ○○○○○ Functionalities :


- ✓ manage awards
- ✓ manage goals
- ✓ manage operations
- ✓ manage Users
- ✓ manage departments
- ✓ Create analytics dashboard




# Mobile & Web Projects




## 01. Reality Lense

 **Needed Profiles**  
2 profiles

 **Technologies**  
Android Kotlin / Laravel /  
Appium

 **Responsible**  
Seifallah Selmi

 **Duration**  
4-6 Months

### Description

- ✓ Develop a mobile and web app that will be dedicated for architects and their clients to ease the communication between them, using innovative and challenging technologies such as :
- ✓ Augmented Reality, real time chat, uploading and downloading 3D object, booking system, etc.

#### The candidate will get familiar with :

- ✓ ARCore
- ✓ Agile methodology and using best practices within the app

## 02. Suivie chantier

### Needed Profiles

2 profiles

### Technologies

Android Kotlin / iOS Swift UI  
Laravel / Appium

### Responsible

Seifallah Selmi


### Duration

4-6 Months


### Description

- ✓ Concept and develop a mobile and web app that which will be for passengers and constructors to help people track nearby construction sites and be able to avoid traffic.
- ✓ Implement a map view to add or check for construction sites.
- ✓ Notify users in case of heavy traffic.
- ✓ Draw alternative routes for users.
- ✓ Real time news and updates for a certain region
- ✓ Real time user location
- ✓ Agile methodology and using best practices within the app
- ✓ writing unit tests and automated tests scripts


## 03. Mice Trap

 **Needed Profiles**  
2 profiles




 **Technologies**  
Android Kotlin / Laravel /  
Appium



 **Responsible**  
Seifallah Selmi




 **Duration**  
4-6 Months

### ○○○○○ Description


- ✓ Develop a mobile and web app which will be communicating with an electronic device.
- ✓ Communicating with an IOT device, a mice trap, and receive real time info.
- ✓ Mice Trap devices and user management.
- ✓ Notify user in case its state has changed.
- ✓ Agile methodology and using best practices within the app
- ✓ Writing unit tests and automated tests scripts

## 04. Inferno Solution

 **Needed Profiles**  
2 profiles

 **Technologies**  
Flutter / Odoo  
Appium

 **Responsible**  
Sawsen Souilem

 **Duration**  
4-6 Months


### Description

- ✓ A gym management app for "Inferno Sousse" that connects the community with the gym's staff members, it makes booking, planning events and communication easier and more accessible.
- ✓ It also helps motivate new members as much as old ones by having a ranking system and various challenges and accomplishments they can achieve to make the gym experience as immersive as a video game is.


#### The candidate will get familiar with :


- ✓ Hybrid mobile development and building the project on different platforms
- ✓ Agile methodology and using best practices within the app
- ✓ writing unit tests and automated tests scripts

# 05. Real Time Object Counter

 **Needed Profiles**  
1 profile

 **Technologies**  
Flutter / ML Kit

 **Responsible**  
Seifallah Selmi

 **Duration**  
4 Months

## Description

- ✓ Concept and develop a mobile app that will use a trained model to track and count specific objects.
- ✓ Using Machine Learning kit to create a performant and accurate model for an object.


### The candidate will get familiar with :


- ✓ Machine Learning process and creating models
- ✓ Developing a cross-platform app using Flutter
- ✓ Agile methodology and using best practices within the app

# Dev Ops




# 01. Security Network

 **Needed Profiles**  
1 profile

 **Technologies**  
active directory  
pfsense / PRTG  
VPN / Redmine / Gitlab

 **Responsible**  
Achref Souilem

 **Duration**  
4-6 Months

## Description

✓ Organize the company's complete hierarchy from which computers belong on which network with the implementation of Active Directory along with integration of redmine, gitlab and protect the network by filtering traffic and blocking outsiders from gaining unauthorized access with firewall + monitoring as well as secure connection to another network by installation of VPN.



# 02. Ensure Security in WEB Applications

## Needed Profiles

1 profile



## Technologies

OWASP ZAP / SAST, DAST and IAST  
Container security / Gitlab CI/CD



## Responsible

Ines Touzi



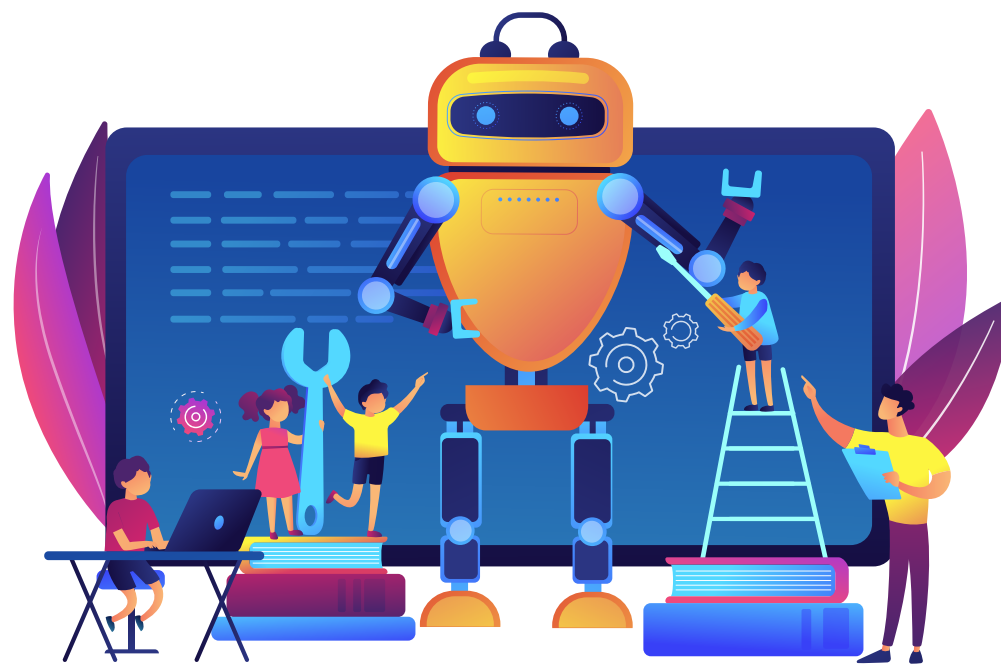
## Duration

4-6 Months

## Description

- ✓ Analysing of web and mobile applications with pentesting tools to retrieve all vulnerabilities found. Then, implementing of necessary solutions to protect those applications against web attacks. At the end, building a secure pipeline and master security in CI/CD.

# Robotics



# 01. Design of an all-terrain mobile robot

## Needed Profiles

1 profile : Mechanical or Electromechanical engineer.

## Duration

4-6 Months

## Description

This project aims to design an autonomous mobile robot to be used in rough terrains :

- ✓ State of art study of mobile platform solution.
- ✓ Study and design of the mobile robot.
- ✓ Selection of materials and Hardware (bearings, couplings, sensors, actuators, ...).
- ✓ Create drawings for all components and assemblies.
- ✓ Apply geometric dimensioning and tolerancing (GD&T) taking into account manufacturing processes.
- ✓ Documentation

# 02. Robot localization using artificial landmarks recognition



## Needed Profiles

1 profile : Computer science /  
Telecommunication /  
Electrical engineering



## Duration

4-6 Months



## Technologies

Image processing  
OpenCV / SLAM  
Python / C++  
Machine Learning



## Responsible

MILI Yasmine

## Description

Robot navigation systems are key enabler of industry 4.0.

✓ This project consists in the design and implementation of an indoor mobile robot navigation system using artificial landmarks recognition ( Visual SLAM ).

### MODULES:

✓ State of art about Visual SLAM - Landmarks encoding and generation - Landmarks recognition using a camera - SLAM implementation and test on a simulator ( ROS Gazebo) - Validation on real robot.



# How to

« *The Expert in anything was once a beginner* »

Be part of a sharing environment to learn new things.

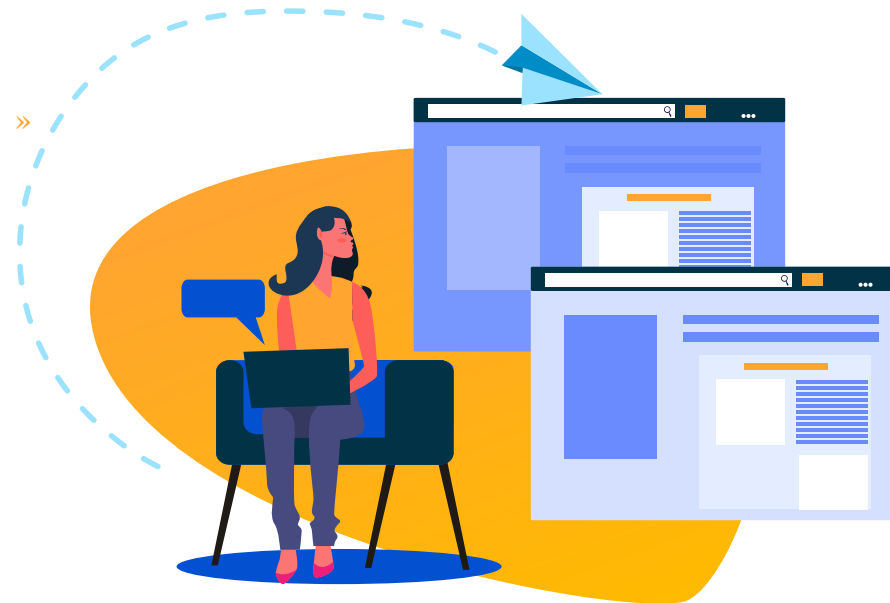
Applying in **DIGINOV** is pretty easy :

1. Find a project that you like
2. Send your **CV**, a **motivation letter** and don't forget to mention the project name.

*What're you waiting for ? Let's get cracking...*



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# Contact



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