




# Mohamed Dhia JEMAI

FULL STACK DEVELOPER



Arabic   
Frensh   
English 

 Tunisia  
 dhia.jemai@gmail.com  
 (+216) 25 453 248

**FULL STACK DEVELOPPER**  
IT PROJECT MANAGER AT BITAKA  
GROUP

## FORMATION

### 2017 - 2021: National Diploma in Computer Engineering

The School of Applied Sciences and Management - SESAME University

### 2011 - 2014: Bachelor Degree in Computer Science

Faculty of Sciences of Monastir (FSM)

### 2009 - 2010: Baccalaureate of Computer Science

Abou Loubaba High School, Gabès

## TECHNICAL SKILLS

- **Languages** : Java, Typescript, Android
- **Web Technologies** : Angular 13, HTML5, XML, JSON, CSS3, PHP5, JavaScript, PrimeFaces AJAX, JQuery, Bootstrap, Thymeleaf
- **Frameworks** : JUnit, Mockito, Spring MVC, Spring Boot, Spring Security, Spring DATA, Spring Core, Spring ORM, Spring AOP, Spring Cloud, JSF2.0, Swing, Hibernate, PrimeFaces, EJB, JPA, JAX-WS, JAX-RS
- **Application Servers** : Apache tomcat, JBOSS, Payara Server, GlassFish
- **SGBD** : MySQL, PostgreSQL, MongoDB, SQLite
- **Web Services** : REST, SOAP (WSDL), JAX-WS, Postman
- **Tools** : Git, JIRA, SVN, Bitbucket, Maven, Jenkins, Docker, SonarLint, JBPM, Eclipse, IntelliJ
- **Systems** : WINDOWS, UNIX/LINUX (Ubuntu, Debian)
- **Methodology** : Agile Scrum

## PROFESSIONAL SKILLS

- Analyzing and programming software applications, translating business requirements into IT solutions.
- Developing and maintaining complex IT solutions within project frameworks, ensuring timely delivery and adherence to standards.
- Contributing to defining functional and integration requirements, conducting development tests, and documenting technical aspects.
- Providing application support through troubleshooting and intervention, ensuring smooth operations.
- Assisting application and project managers in their respective roles.

## MISSIONS & PROJECTS

### ▪ **September 2023 - May 2024 : Implementation of a fuel card management system for 'Alrahila - Oil Services 'Libya**

Implemented a comprehensive fuel card management system for 'Alrahila - Oil Services' in Libya, consisting of two essential components:

#### **1. Back Office Management:**

- ✓ User Management Module: Effectively designed and implemented a system for managing user roles and permissions.
- ✓ Customer and Fuel Card Account Management Module: Established a streamlined process for managing customer accounts and fuel card information.
- ✓ Fuel Station Management Module: Implemented a module for the efficient management of fuel stations, ensuring seamless coordination.
- ✓ Fuel Card Charging Module: Developed a user-friendly system for managing fuel card charging, providing flexibility and control.
- ✓ Sales and Statistics Module: Implemented a robust module for tracking sales and generating valuable statistics, enabling data-driven decision-making

#### **2. Mobile Component for Nexgo N8 Terminal:**

- ✓ Balance Check Functionality: Developed and integrated a feature allowing users to easily check the balance of their fuel cards.
- ✓ Transaction Payment Capability: Implemented a secure payment functionality, facilitating smooth transactions for users.
- ✓ Transaction History Display: Designed a feature enabling users to view the latest actions performed with their cards, ensuring transparency and accountability.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT

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### ▪ **June 2023 - August 2023 : Implemented an Android app dedicated to ticket verification and access control on behalf of prominent organizations including:**

- ❖ Teskerti.tn
- ❖ El teatro
- ❖ Tunis Opera Theater

Key features and accomplishments include:

- **User-Friendly Event Navigation:**
  - ✓ Developed an intuitive mobile app enabling users to seamlessly browse through a chronological list of events and shows organized by the app owner.
- **Secure Access Control Management:**
  - ✓ Implemented a robust access control management module within the mobile application.
  - ✓ The app facilitates secure entry by allowing users to scan the encoded barcode/QR of their tickets, ensuring a streamlined and efficient verification process.
- **Access Statistics Module:**

- ✓ Integrated an access statistics module to provide valuable insights into attendance patterns and trends.
- ✓ Enables the app owner to track and analyze data related to the frequency and distribution of access across various events.

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Environment : Android, JAVA, XML, API REST, JSON, SQLite

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▪ **January 2022 - December 2023 : Implementation of the electronic wallet system on behalf of The Palace of the Republic**

Led the integration of two key components:

**1. Store Stock Management Component:**

- ✓ Orchestrated the management of stock for refreshment bars and storage depots.
- ✓ Implemented a streamlined movement management module for efficient logistics between the main depot, store, and refreshment bar.
- ✓ Introduced a robust statistical reporting module, generating monthly reports showcasing item storage insights, quantities sold, and revenue figures at refreshment and depot levels

**2. Employee Card Management Component:**

- ✓ Implemented a module for generating barcode cards, enhancing transaction efficiency for employees.
- ✓ Established a seamless system for overseeing employee card deposits and withdrawals.
- ✓ Successfully implemented a transaction history management module, ensuring accurate and organized record-keeping.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports, Payara server, PostgreSQL, Primefaces, Maven, Rest, SOAP, WSDL, XML, GIT

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▪ **November 2022 - December 2022 : Implementation of the Tombola system for the Qatari Embassy in Tunisia**

Implemented a dynamic Tombola system for the Qatari Embassy in Tunisia, specifically designed for the National Day event held at the LAICO Hotel. Key features and highlights of the application include:

- ✓ Developed an application for live drawings broadcasted during the event, engaging participants in winning 48 gifts from esteemed sponsors including Ooredoo, Qatar National Bank, Qatar Airways, Zitouna Bank, La Cigale Hotel, Zitouna Takaful, and Anantara Hotel.
- ✓ Streamlined gift card distribution process, ensuring every participant received a voucher.
- ✓ Established a secure voucher assignment system prior to the event.
- ✓ Integrated a dynamic code display mechanism for announcing winning voucher codes, enhancing participant excitement

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports, Payara server, PostgreSQL, Primefaces, Maven, Rest, SOAP, WSDL, XML, GIT

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▪ **October 2022 - November 2022 : Implementation of system for the "Qatar 2022 World Cup Fan Zone" organized by Ooredoo Tunisia and the Qatar Embassy**

Design and development of a system for the 'Qatar 2022 World Cup Fan Zone,' jointly organized by Ooredoo Tunisia and the Qatar Embassy. Key components include:

- **PDF Invitation Generation System:**

- ✓ Designed and developed a system generating PDF invitations for each World Cup game.
- ✓ Each invitation embedded a unique QR code, ensuring secure and efficient access control.

- **Mobile Applications:**

- ✓ Access Control Agent App: Developed an application for access control agents, enabling QR code scanning to verify entry rights for each invitation.
- ✓ Managerial Android App: Created an Android application for managers, providing access to real-time access statistics for each World Cup game.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT

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- **January 2022 - June 2022 : Implementation of the E-Lunch system for the company SAFRAN**

Designed and produced a comprehensive system for managing daily and automatic reservations for 2,600 employees, along with access to the SAFRAN restaurant. Key components include:

- **Web Application:** Created a web application facilitating daily and automatic reservations for employees, streamlining the management process.
- **Employee Android App:** Developed an Android app for employees, providing features like credit information, reservation history, access to restaurant menus, and the ability to make daily or monthly reservations.
- **Managerial Android App on NEXGO N3 Terminal:** Enabled scanning of employees' NFC cards, checking their access status, and printing tickets with responses to their status.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT, Eclipse

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- **November 2021 - January 2022 : Implementation of a system for creating discount coupons for educational institutions under the Ministry of Education in Tunisia**

Development of a for creating discount coupons for educational institutions under the Ministry of Education in Tunisia, featuring:

- **Coupon Creation System:**

- ✓ Developed a system with a web service that communicates with the Ministry of Education APIs, enabling the creation of discount coupons for primary and high schools.

- **Collaborative Module with Carthage Land:**

- ✓ Established a collaborative module between Carthage Land and the Ministry of Education, allowing for:
  - Consultation of statistics on institutional purchases.
  - Tracking amounts spent at Carthage Land.
  - Monitoring the value of rebates for each school.

- **Database Integration:**

- ✓ Preserved information in both the Carthage-Land database and the Ministry of Education database.
- ✓ Ensured accurate records for each school, facilitating reimbursement calculations based on expenses incurred at Carthage Land.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, GIT

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▪ **July 2021 - December 2021 : Implementation of the system for Electronic Wallets intended for hotels : EW- Hotels**

Implemented the EW-Hotels Electronic Wallet system, currently operational in three hotels: 'Medina Belissaire And Thalasso,' 'Medina Solaria And Thalasso,' and 'Diar Lemdina,' with plans for expansion to four more hotels.

Key features include:

- **Back-Office Management:**
  - ✓ Developed a comprehensive back-office module for managing sales of NFC swimming pool cards, charging cards with defined levels, and reviewing transaction history for customers across all hotels.
- **Android Application on NEXGO N3 Terminal:**
  - ✓ Installed an Android application on the NEXGO N3 terminal with modules for:
    - Payment Module: Providing access to defined locations within the hotel.
    - Customer Consumption Payment Module: Facilitating payments for customer consumptions.
    - Accommodation Payment Module: Streamlining accommodation payments.
    - Balance and Transaction Module: Enabling customers to check their balance and review recent transactions.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT

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▪ **August 2021 - October 2021 : Implementation of a system for the international tennis tournament WTA - Jasmin Open Tunisia**

Design and production of a system for the international tennis tournament WTA - Jasmin Open Tunisia, featuring:

- **Central Management System:**

Developed a system with modules for:

  - ✓ Ticket Generation Module: Facilitating ticket requests for matches, access packs, and invitations.
  - ✓ Access Monitoring Module: Tracking stadium access through turnstiles or mobile app scans, with real-time statistics.
  - ✓ Sales Monitoring Modules: Tracking and analyzing sales statistics, including customer interactions through Rest APIs for online ticket sales.
- **Android Mobile Applications:**
  - ✓ Ticket Scanning App: Designed an application for scanning tickets for stadium access.

- ✓ Access Statistics App: Created an app for instantaneously consulting access statistics for each match.
- ✓ Sales Statistics App: Developed an application displaying sales statistics, providing insights on total sales, daily figures, and game-specific data.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT

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▪ **May 2021 - September 2021 : Implementation of a subscription management system for Espérance sportive de Tunis**

Featuring:

- **Web Application for Subscription Generation:**
  - ✓ Designed and produced a web application enabling the generation and online resale of subscriptions (NFC cards) for Espérance Sportive de Tunis.
- **Offline Android Application for Stadium Access Management:**
  - ✓ Developed an Android application installed on 18 mobile phones to efficiently manage stadium access queues.
  - ✓ Capable of functioning offline, the application follows a workflow that includes:
    - Transferring the subscription database from the server to the local mobile database based on the subscription type assigned to each steward.
    - Processing stadium registrations for access control, utilizing a green interface for new NFC subscriptions and a red interface for previously processed ones.
    - Allowing each steward to send processed subscriptions back to the server after processing the stadium access queues.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT

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▪ **January 2021 - April 2021 : Implementation of a system for selling and reversing tables and chairs operated by customers of StarBox Events**

Designed and produced a web application facilitating integration of nightclub plans with tables and chairs, offering several key modules:

- ✓ User Management Module: Enables the creation of users with different roles for effective access control.
- ✓ Tables and Chairs Sale/Reservation Module: Allows users to seamlessly sell or reserve tables and chairs, entering complete customer information for efficient transactions.
- ✓ Statistics Module: Provides administrators with comprehensive insights into table status, details of sales and reservations, and activity status of each registered seller.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, Rest, GIT, Eclipse

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▪ **August 2020 - December 2020 : Implementation of a ticketing system for major cultural festivals including:**

**Carthage Film Festival (JJC) - Carthage Theatre Festival (JTC) - Carthage Music Festival (JMC) - Gabes Cinema Fen (GCFEN)**

The system consists of two web applications, acting as a server and a client, respectively.

- **Server-Side Web Application:**

- ✓ Ticket Generation Module: Designed a module for generating QR codes for each screening or performance, such as plays and musicals, created in advance for each film or event in the ongoing festival.
- ✓ Accreditation Module: Created a module for generating badge models based on access limits per person per session and the number of sessions per day.

- **Client-Side Web Application:**

- ✓ Sales Module: Developed a sales module enabling direct ticket sales according to defined prices on the server.
- ✓ Integration with Teskerti.tn: Implemented interfacing with Teskerti.tn through REST web services for seamless online sales.
- ✓ Synchronization Module: Enabled offline functionality on the client side, with a synchronization module ensuring that all information is sent or imported from the server as soon as it switches to online mode.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, SOAP, WSDL, XML, Rest, GIT

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- **January 2020 - July 2020 : Implementation of the ticketing system for prestigious events, including:**

The International Festival of Carthage - The International Festival of Hammamet - The International Festival of Bizerte

The system involves:

- **Web Application for Access Management:**

- ✓ Designed and developed a comprehensive web application to manage the access and exit of festival attendees through turnstiles and interactive terminals.
- ✓ Key modules include:
  - Ticket and Voucher Generation: Enables the creation of tickets and vouchers for online sale, tailored to each show.
  - Ticket Template Generation: Allows the generation of templates for various types of tickets (Badge, Invitation, Media Pass, etc.).
  - Secured Sales Routing Module: Ensures the secure routing of ticket sales actions at counters.

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Environment : JAVA/JEE, JSF, JDBC, JPA, Hibernate, Jasper Reports , Android, Payara server, PostgreSQL, Primefaces, Maven, SOAP, WSDL, XML, Rest, GIT

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- **June 2019 - December 2019 : Implementation of a system for the management and tracking of cases for the Association for the Fight against Violence against Women**

Implementation of a system to manage a workflow for processing women's cases, including the four main processing phases:

1. Welcome Phase: Initial phase where women are received, and details of their case are recorded.
2. Legal Phase: Phase where the legal aspects of the case are addressed, such as filed complaints and ongoing legal proceedings.
3. Medical Phase: Phase where women's medical needs are assessed and addressed, including medical examinations and necessary care.
4. Social Phase: Phase where women's social needs are addressed, such as housing, employment, and psychosocial support

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Environment : JAVA, Spring-boot, Angular, PrimeNG, Mongoddb, Maven, Rest, GIT

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## CERTIFICATIONS

- **SCRUM DEVELOPER CERTIFIED (SDC®)**



- **MICROSOFT MTA**

- Software Development Fundamentals.
- HTML5 Application Development Fundamentals



- **MongoDB University**

- M320 : MongoDB Data Modeling
- M201: MongoDB Performance
- M220J: MongoDB for Java Developers.
- M121 : The MongoDB Aggregation Framework
- M103 : Basic Cluster Administration
- M042 : New Features and Tools in MongoDB 4.2
- M001 : MongoDB Basics



- **CISCO**

- CCNA 1 Routing and Switching: Introduction to Networks.



- **Ministry of Communication Technologies and Digital Economy – Tunisia**

- M Dev Tunisia – Android
- M Dev Tunisia - Cross Platform



- **HP LIFE**

- Certificates of completion of IT training units.

