Case Study 1: Motor Plus (DevOps – Web-Dev)

Business Challenge

Developing Partner Application For Insurance Dealers

Requirement

- To develop web and mobile application for dealers and business team, who are dealing with overall insurance policies which includes motor insurance, retail, health, etc.

- Apps should provide support to register partners and enable for easy enrolment.

- Deployments will be based on every day with different environments

Technology & Tools

- Frontend: Angular

- Backend: NodeJS

- Tools: GIT, JIRA, BitBucket, Jenkins

- Editor: VS Code

Value add by Mirafra

- Develop UI screens which are rendered seamlessly on Web & Mobile

- Implement Microservice based architecture

- Enable end-to-end testing and deployment thru CI/CD pipeline.

- Work on optimization of the product

- Work on new features & bug fixes

Case Study 2: Agent Portal (DevOps – Web-Dev)

mirafra TECHNOLOGIES

Business Challenge

A complete solution to users/agents for application of insurance for self and family members.

Requirement

- A web portal for agents/users for applying insurance online and paying the annual premium.

- A dashboard to keep track of policies, premium paid and users of the portal.

- Web application for admins and underwriters to view and cross-check the policy details.

Technology & Tools

- Backend: NodeJS

- Frontend: Angular

- DB: MySql

- Middleware: ABS (Alliance Business System)

- Repository: GIT

- Editor: VS Code

Value add by Mirafra

- Creation of application from scratch.

- Development of web applicaton with features like Signup, Signin, Payment, KYC etc.

- Development of web app to monitor the policy from application to issuance.

- Enable end-to-end testing and deployment thru CI/CD pipeline.

- Work on optimization of the product

- Work on new features & bug fixes

Case Study 3: Pre-Inspection PI (DevOps – Web-Dev)

Business Challenge

A complete solution to assist customer/agent to record and capture the photos of all sides of vehicle for the operations team to approve/reject the policies after review.

Requirement	Technology & Tools	Value add by Mirafra

Requirement

- Mobile application to assist customer or agents to record or capture the video and photos of the vehicle.

- Web application to reveiew the photos and video for the operations team to approve/reject the policies.

- Web application to raise the endorsement request.

Technology & Tools

- Back end: Java Springboot

- Frontend: Angular

- DB: MySQL

- Repository: Bitbucket

Value add by Mirafra

- Developed a non-motor endorsement module from scratch.

- Developed a module to record the video with impose functionality.

- Developed a module to mark the damages on photos.
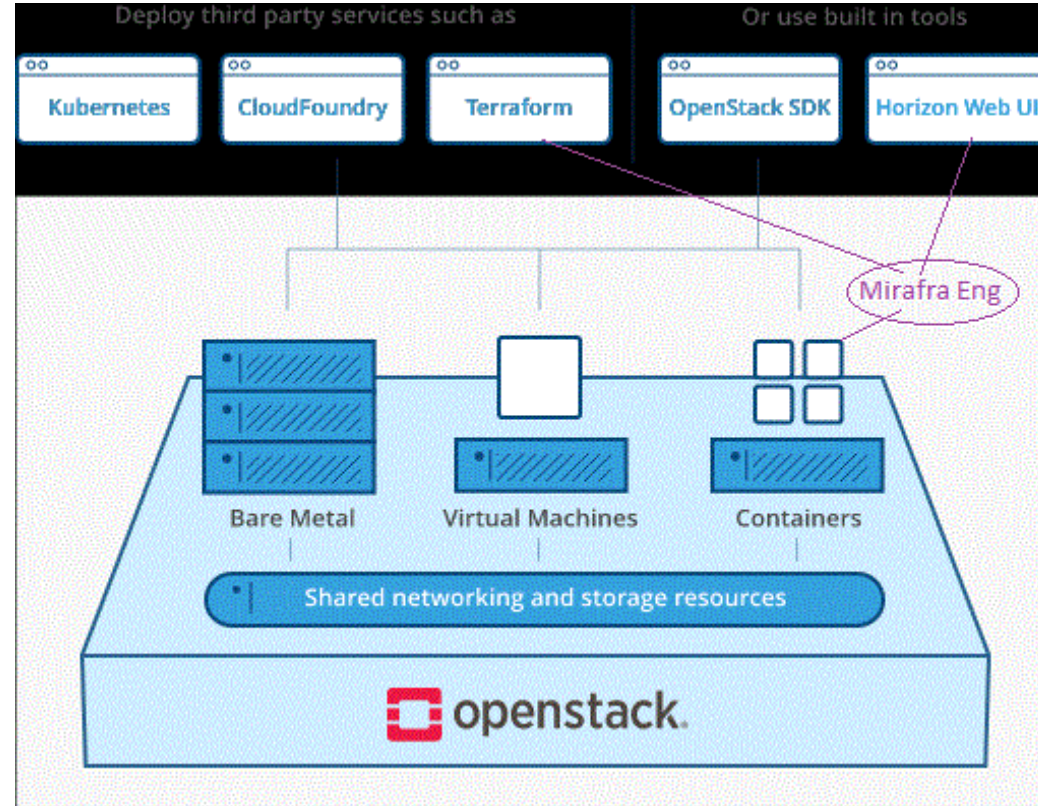
- Developed a module to upload photos offline.

Case Study 4: DevOps – Infra-Dev

Program:
- Project for global leader in electronic design automation (EDA) and semiconductor IP company's
- Improve internal cloud user experience post infrastructure acquisition

Mirafra's Role :
- Automation of configuration of internal tool chain on top of cloud resources (platform step on top of infrastructure)

Tools:
- Python, OpenStack, Django, Bash scripts, Docker, Terraform

Case Study 5: Development of HW device config tool (DevOps – Installer-Dev)

Business Challenge

- Improve customer experience through tool based HW configuration for electrical devices

Requirement

- Develop & maintain a desktop application to develop GUI that support configuration of electrical HW devices
- Device specific installers/builds with custom pre and post build scripting
- GUI Interactivity
- MTP Programming Implementation
- Certificate handling for installers, setup installer GUI screens

Technology & Tools

- C#, WPF
- .NET Framework
- FTDI drivers
    - I2C, PMBus
- Visual Studio
- 7Zip
- Notepad++
- XML, Git
- VS Installer

Value add by Mirafra

- Successful development & delivery of installer builds
- Development of demo mode to eliminate HW dependency for QA
- Successful support for 5 families of devices over 3 years
- Supported 15+ HW devices
- Logging feature implemented for quick RCA/debugging
- NUnit implementation for test automation