

Final Capstone Project

Project Orientation

General Objectives

- Apply all previously learned course objectives in the capstone project delivery
- Know how to read requirements
- Analyze data into technical information
- Build implementation algorithm to solve problems
- Design 3-tier architecture of the targeted project
- Implement project's main functionalities as per given requirements
- Test code against business & technical requirements
- Build, Deploy, Deliver & Operate the project on IBM WebSphere Application Server



Orientation

Final Capstone Project

Introduction

- This capstone project is a one pillar project delivery based on multiple milestones delivered along the training bootcamp. The practical project implementation on the basis of developing a minimal viable product MVP by applying all the concepts and fundamentals that were taught through the bootcamp training weeks.
- The idea of the capstone project is based on simulation of the real software market challenges and competencies that a software project would pass through starting from its initial analysis up to the phase of its delivery and launching.
- All trainees will be implementing and delivering their projects **individually** while being lead by the track trainer as a supervisor for all trainees to qualify them to implement and deliver the project as per the given business and technical requirements.
- All projects will be evaluated according to a given scoring criteria that is covering all project aspects.

Prerequisites

- Know the basics of Mathematics and how to build Algorithms
- Understand the full delivered training content of the training bootcamp
- Ability to analyze business requirements of targeted project into technical aspect.
- Ability to design and implement algorithms to achieve the project's target by applying all training bootcamp delivered methodologies and hacks.
- Know project delivery procedures and present a UAT demo as per the requirements.

Project Content

- What is an MVP?
- General Instructions
- Data Privacy Concerns
- Scoring & Evaluation Criteria
- Project Deliverables
- Project Idea

Project Content

- **What is an MVP Project?**

- An MVP Project is a prototype version of a given project idea based on real requirements which were gathered from customer as per market needs.
- The main idea of delivery is about having the minimal features ready that could bring the project up and running on a production environment.
- One of the main outcomes is all about gaining customer feedback at the earliest by having demos on running versions at early stages of project lifecycle.

Project Content

- **General Instructions**
 - No restrictions on code usage
 - copy/paste ideas from previous exercises,
 - use ready exercises from the bootcamp courses,
 - search the internet
 - Don't forget the KISS strategy [Keep It Simple & Stupid]
 - Write simple and clean code while implementing your idea.
 - Think Business & Technical at the same time
 - **This is a learning opportunity, catch it, practice it and win it.**

Project Content

- **Data Privacy Concerns**

- All information including project ideas, documents, files that are shared during the bootcamp is owned by the bootcamp management and cannot be shared or distributed outside the bootcamp.
- All the bootcamp content cannot be shared on social media.
- Any program or code that is implemented during the bootcamp is owned by Bootcamp Management and they are only having the rights to use it as per its operational requirements.

Project Content

- **Scoring & Evaluation Criteria**

- **Main Evaluation:**

- Apply & implement main business requirements
 - The project should be running in development environment
 - The project should cover the full customer experience scenarios
 - Project should have real test data [test123, AAA, ...etc.] are not allowed.
 - Project should match Saudi market needs.

- **Extra Evaluation:**

- Any optionally implemented points will earn extra points
 - Any extra implemented points will earn extra points

Project Content

- **Project Deliverables**
 - Project code [running]
 - All external libraries if any [e.g.: jdbc, js, css, ..etc]
 - Any used tools, files or servers if any [e.g.: database, notepad, ..etc]
 - Final presentation in power point format [using the attached template for SDAIA]
 - All test data used in Live Demo presentation

Project Idea: Medical Consultation Platform

- **Introduction**

- Advancements in telecommunication field has given rise to several industries including telehealth and telemedicine.
- Access to health services is one of the necessities in life. However, the cost of healthcare is increasing in all parts of the world and some areas are too distant that doctors from all fields are not available in hospital facilities there.
- However, with communication networks it is easier for doctors to consult multiple patients in distant locations.

Medical Consultation Platform

- **Project Goal**

- A web application platform that allows patients to avail remote consultations securely and privately from verified doctors while maintaining data confidentiality and patients consent.

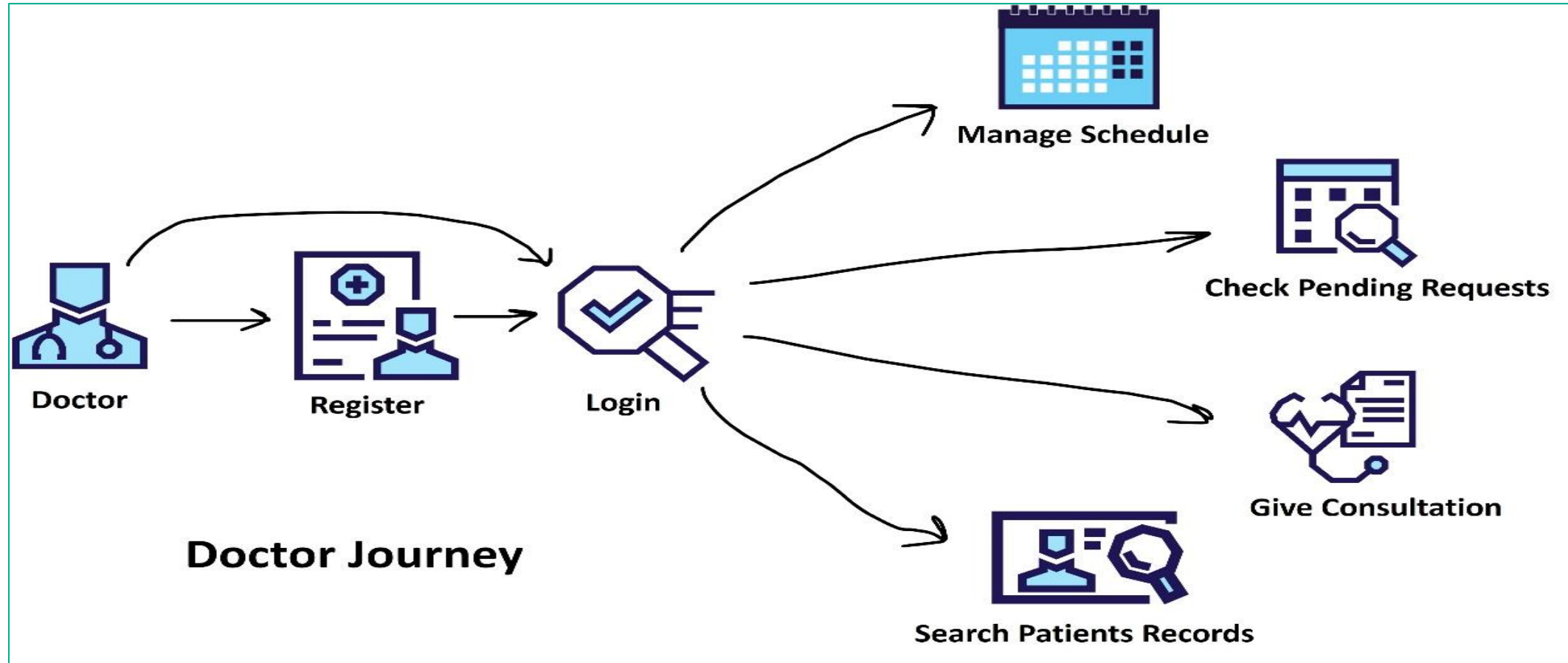
- **Customer Journeys**

- This section provides the customer journeys as per each customer type. Each customer journey identifies the main features and capabilities that the customer has while interacting with system components.
 - Doctor Journey
 - Patient Journey

Medical Consultation Platform

- **Doctor Journey**
 - Doctor should be able to register and login
 - Doctor should be able to define and manage availability schedule
 - Doctor should be able to check all pending consultation requests
 - Doctor should be able to give consultation to a pending request
 - Doctor should be able to record a patient's diagnosis
 - Doctor should be able to search patients' medical records

Medical Consultation Platform

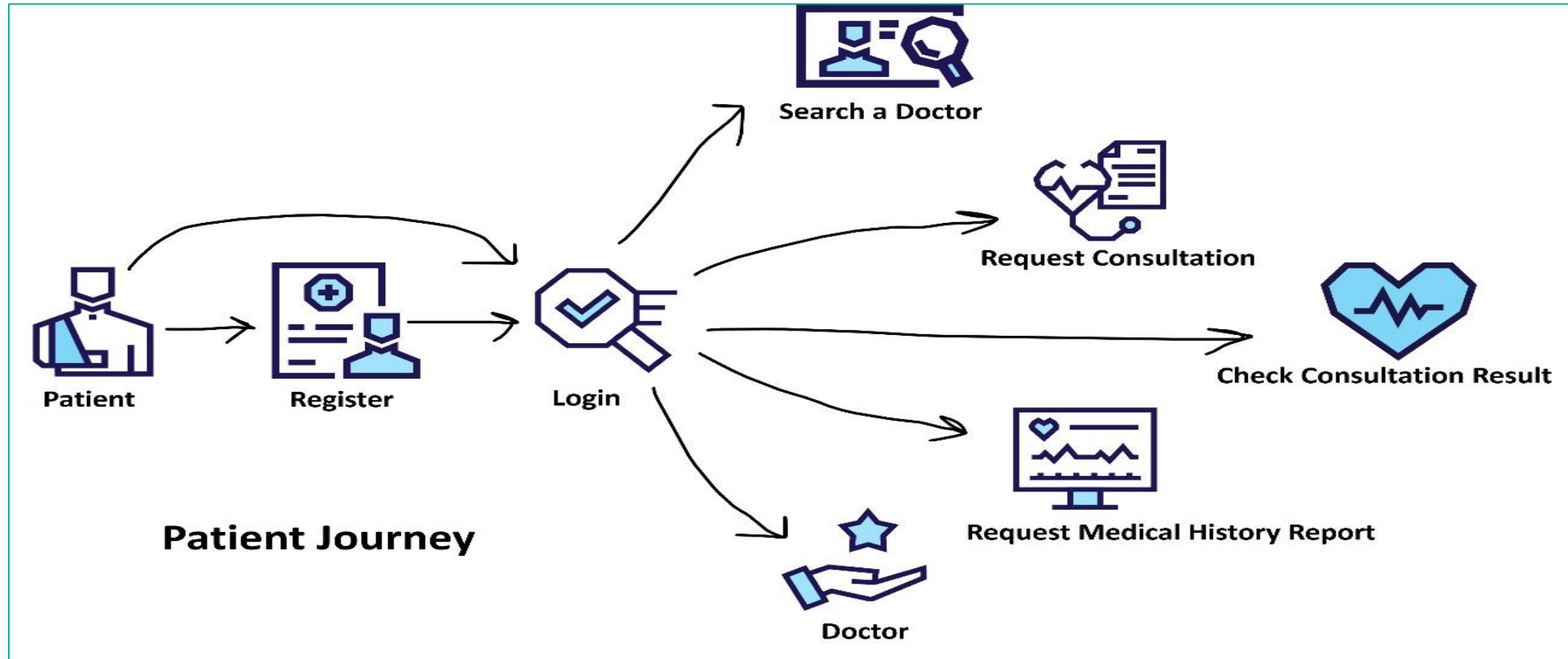


Medical Consultation Platform

- **Patient Journey**

- Patient should be able to register and login
- Patient should be able to search for doctor by dynamic criteria [specialties, ratings, availability, id, or name]
- Patient should be able to request consultation from a selected doctor
- Patient can check a consultation result
- Patient can request a medical history report for all previously recorded diagnosis
- Patient should be able to rate a doctor

Medical Consultation Platform





Questions

Final Capstone Project

THANK YOU

End of training