

BI and Analytics Use Cases



Use Cases Details



Assessment Department Project : Providing a comprehensive view of the performance of practitioners and trainees in exams, highlighting areas of strength and weakness, and comparing their performance with their peers in universities and other training centers.

Priority
score

2.5 Out OF 3

1- Objective Aimed to Be Achieved

- 1.**Comprehensive Performance Overview:** Analyze practitioners' and trainees' exam results to monitor competency.
- 2.**Identifying Weaknesses:** Highlight areas for improvement to boost performance.
- 3.**Benchmarking:** Compare performance with peers in universities and training centers.
- 4.**Improving Quality:** Use data to enhance curricula and training methods.
- 5.**Transparency:** Ensure fair and objective evaluations to build trust.
- 6.**Informed Decisions:** Provide insights to guide strategic improvements.
- 7.**Competitiveness:** Enhance rankings by improving trainee efficiency.

2-Type of Analytics Leveraged

- **Exploratory analysis:** Identifying new patterns and common questions from user inquiries.
- **Descriptive analysis:** Simplify data to understand what has happened using basic statistics like averages, ratios, and standard deviations.
- **Diagnostic analysis:** Investigate the causes behind identified phenomena, helping to understand the root reasons for high or low performance..



Assessment Department Project : Expected Benefits and Business Value (ROI) and Stakeholders Involved

3-Expected Benefits and Business Value (ROI)

- 1.Achieving a Comprehensive Performance Vision: Provide detailed reports that outline the performance of trainees and practitioners based on exam results.
- 2.Enhancing Individual Efficiency: Accurately identify strengths and weaknesses, enabling trainees and practitioners to improve their performance.
- 3.Improving Education and Training Levels: Upgrade curriculum and teaching methods to meet excellence standards.
- 4.Fostering Positive Competition: Compare the performance of universities and training centers with others to encourage improvement.
- 5.Building Trust in the Education and Training System: Ensure fair and transparent evaluations to enhance credibility.
- 6.Increasing Beneficiary Satisfaction: Provide clear and constructive feedback to practitioners and trainees to motivate continuous improvement.

4-Stakeholders Involved

Implementation Stakeholders:

- Data Solutions Team (Use Case Owner)
- Assessment Department
- IT Department

Target Consumers:

- University Deans and DIO
- Assessment Department



Assessment Department Project : Business Requirements, Data Sources, Technologies Required

6-Business Requirements

1.Performance Analysis Reports:

- Provide detailed reports on practitioners' and trainees' performance.

2.Benchmarking Comparisons:

- Enable performance comparisons between universities and training centers.

3.Identifying Strengths and Weaknesses:

- Use analytical tools to pinpoint areas needing improvement.

7-Data Sources

- **Multiple systems** (Mumaris Plus, Matching System, Training System, Exam Results, Tawasul)

8-Technologies Required

- **Data Integration Systems:** Tools to consolidate data from multiple systems in real-time.
- **Visualization and Reporting Tools:** Tableau for designing advanced dashboards.
- **Backend Infrastructure:** storage and processing for seamless real-time operations.



AI Agent: system offers secure access, supports inquiries, and streamlines tasks with advanced analytics, improving decision-making, efficiency, and user experiences..

Priority
score

2.37 Out Of 3

1- Objective Aimed to Be Achieved

1. **Empowering employees:** Providing access to internal information based on the permissions granted to each employee.
2. **Supporting practitioners:** Allowing inquiries about the regulations and services.
3. **Enabling practitioners to follow up** on their requests and review their information registered in the systems.
3. **Personal assistant:** Helping employees in completing their daily work by providing direct support.

2-Type of Analytics Leveraged

- **Exploratory analysis:** Identifying new patterns and common questions from user inquiries.
- **Descriptive analysis:** Summarizing data on the number of requests, inquiries, and the most common topics.
- **Diagnostic analysis:** Knowing the reasons for incomplete requests or failure to provide information correctly.
- **Predictive Analysis:** Predicting user needs based on previous inquiries.

3-Expected Benefits and Business Value (ROI)

1. Improved Efficiency: Faster access to information and streamlined workflows reduce time and effort for employees and practitioners.
2. Enhanced Productivity: Personal assistance and role-based access enable employees to focus on critical tasks.
3. Better Practitioner Experience: Quicker inquiry resolutions and proactive support improve satisfaction
4. Cost Savings: Automation and error reduction lower operational costs.
5. Data-Driven Insights: Analytics provide actionable trends, enabling smarter decisions and continuous improvement.

4-Stakeholders Involved

Implementation Stakeholders:

- Data Solutions Team (Use Case Owner)
- Customer Care Department
- IT Department

Target Consumers:

- Employees
- Practitioners

AI Agent: Business Requirements, Data Sources and Technologies Required

6-Business Requirements

1. **Secure Access:** Role-based, secure access for employees and practitioners..
2. **Service Integration:** Real-time updates and seamless system integration.
3. **Practitioner Support:** Handle inquiries, track requests, and allow data review.
4. **Personal Assistant:** Task support for employees to enhance efficiency.
5. **Analytics:** Enable exploratory, descriptive, diagnostic, and predictive insights.
6. **Reporting:** Generate performance and effectiveness reports.
7. **User Interface:** Simple and intuitive design for easy navigation.
8. **Technology Integration:** Connect with systems for data access.
9. **Data Security:** Robust backend infrastructure ensuring data security and compliance.

7-Data Sources

- **Multiple systems** (Mumaris Plus,, ERP, Matching System, Training System, Tawasul)
- **Master Data** A master database containing all practitioners' data and information linked to all systems.

8-Technologies Required

1. **Natural Language Processing (NLP):**To understand natural language and process user queries.
2. **Machine Learning Framework (ML):**To improve the system's self-learning and provide accurate responses.
3. **Backend Infrastructure:**To manage data and process requests.
4. **Integration Tools:** To connect the system with other databases and services.
5. **Frontend Technologies:**To design a simple and easy-to-use user interface.



Practitioner 360: Provide a 360-degree view of practitioner information to assist customer service staff.

Priority
score

2.25 Out Of 3

1- Objective Aimed to Be Achieved

- Enhance customer service by providing a comprehensive 360-degree view of practitioner data.
- Accelerate inquiry handling through quick and accurate solutions.
- Centralize and integrate data from multiple systems for easy access.
- Provide updates on support tickets and track their progress effectively.

2-Type of Analytics Leveraged

- **Descriptive Analytics:** Aggregate and display real-time data about practitioners and ticket statuses.
- **Diagnostic Analytics:** Identify reasons behind unresolved tickets or delays.
- **Predictive Analytics:** Use AI-driven insights to predict call priorities and recommend solutions.

3-Expected Benefits and Business Value

(ROI)

- **Streamlined Operations:** Faster access to comprehensive practitioner data, reducing average handling times.
- **Enhanced Practitioner Satisfaction:** Quicker response times, leading to improved service experiences.
- **Actionable Insights:** Recommendations for optimal resolutions improve decision-making quality.
- **Cost Savings:** Reduce operational inefficiencies by minimizing time spent searching across multiple systems.

4-Stakeholders Involved

Implementation Stakeholders:

- Data Solutions Team (Use Case Owner):
- Customer Care Department.

Target Consumers:

- Customer Care employees:
- Practitioners



Practitioner 360: Business Requirements, Data Sources and Technologies Required

6-Business Requirements

- Develop a centralized dashboard to aggregate practitioner data from multiple systems.
- Ensure real-time data synchronization and visibility.
- Integrate ticketing and practitioner systems to track the status and progress of tickets.
- Implement AI capabilities for prioritization and resolution recommendations.
- Provide a user-friendly interface for Customer Care employees.
- Ensure role-based access to maintain data privacy and security.

7-Data Sources

- **Mumaris Plus System:** Core practitioner database.
- **Ticketing System (Tawasul):** Information about support tickets and their progress.
- **Other Relevant Databases:** Any additional commission databases linked to practitioners, such as Training or CPD systems.

8-Technologies Required

- **Data Integration Systems:** Tools to consolidate data from multiple systems in real-time.
- **Visualization and Reporting Tools:** Tableau for designing advanced dashboards.
- **Backend Infrastructure:** storage and processing for seamless real-time operations.



THANK YOU.

