Key Management Group

Fostering Partnerships

**Patient Management System
Legacy Modernization Case Study**

PMS Client Overview

A Physician Services Organization providing a suite of services to aid physicians in collecting patient payments

Client's services bundle comprises of:

- Scheduling/Front Office
- Interactive Provider Participation
- EDI Submission & Maintenance
- Email or Text Practice Management Information
- Complete Practice Management Reporting
- Software Support
- Hardware, Data Security & Backup System
- Compliance
- Transitional A/R Management Services
- Ancillary Services like Payer Credentialing Services, Custom Programs and Reports,
- Prior A/R conversion and collection, Automated
- Appointment Reminders
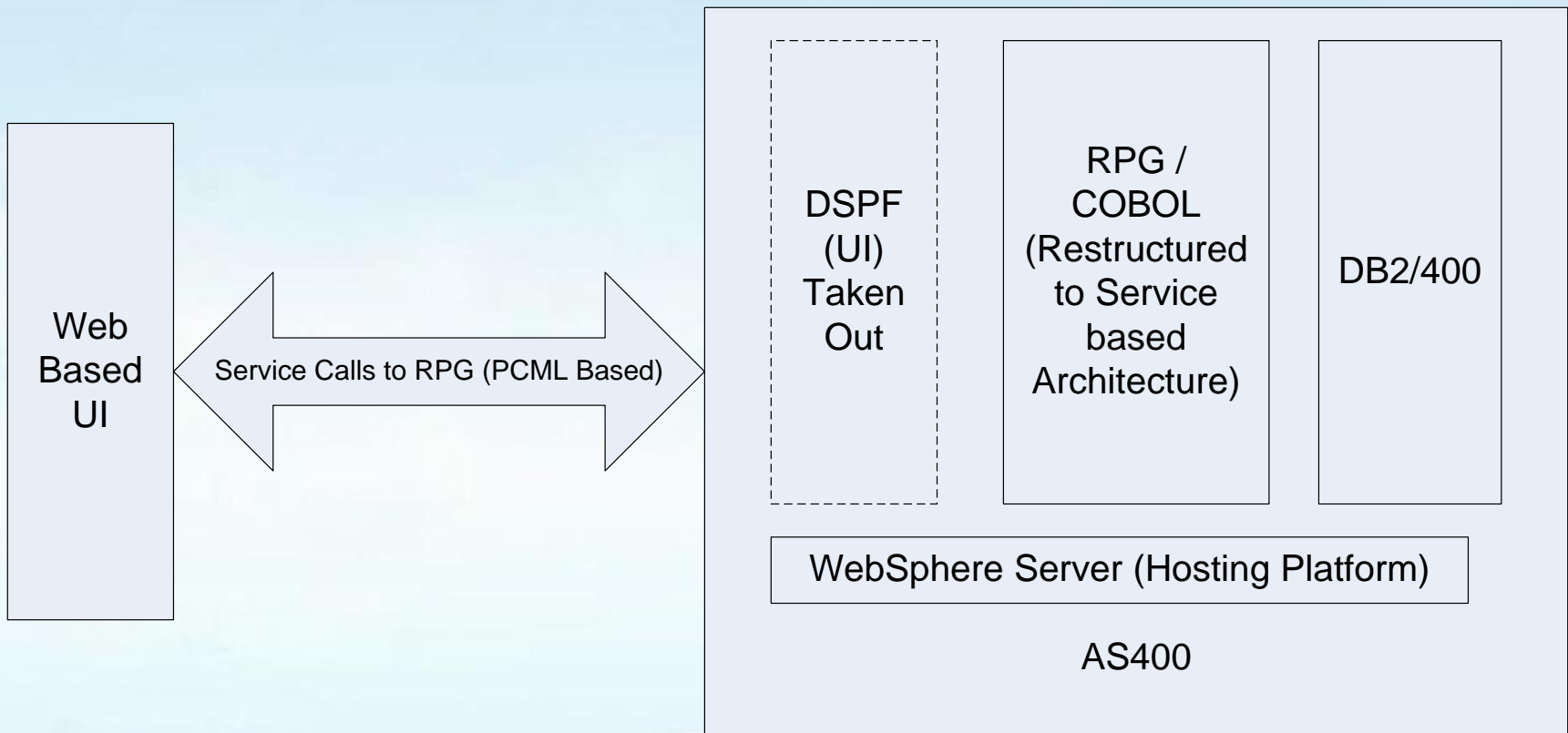- EMR / EHR Interface
- Hospital System Interface

Current Technology Setup

- AS/400 RPG 2 based PMS application
- 30 years old application
- Serving 300+ clients
- Multiple Databases
- Online System, Reports and Utilities
- 10+ major modules
- Close to 1000 RPG programs and 300+ Database Files
- Outdated Screen Scrapper

Wish List

- Rich UI
- Ease of access
- Future Scalability to portable devices
- Field Expansions
- Minimum Time and Budget
- Selection of Technology considering current and future cost
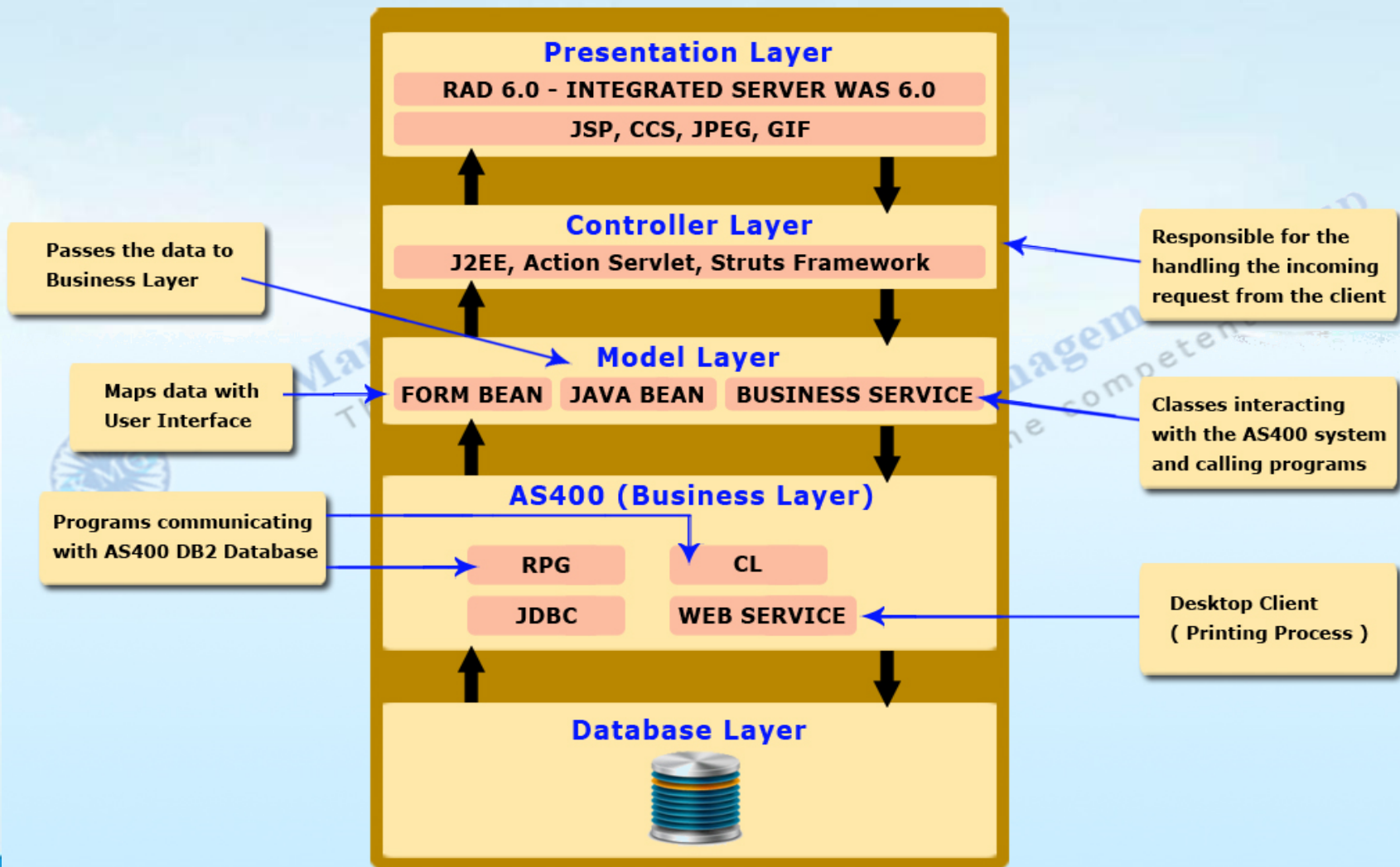- Efficient use of current resources and Infrastructure

High Level Architecture

Detailed Architecture
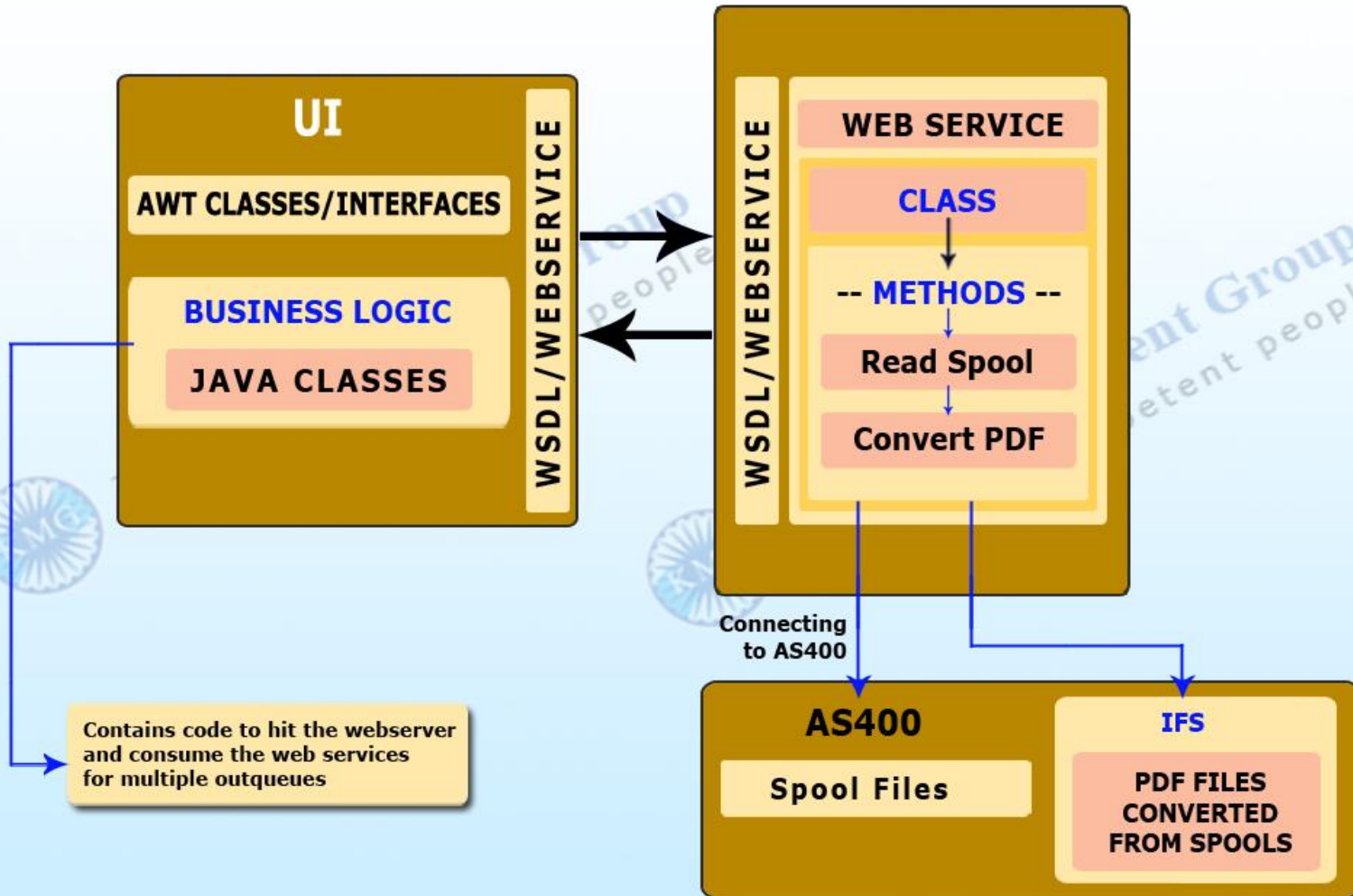
KMG Solution for Modernization

DESIGN

- Existing Green Screens are converted into GUI based screens (Front End)
- Display Files taken out from RPG / COBOL
- Minor validations are taken at Front End to reduce number of Server Cycles
- Programs (RPG / COBOL) are parameterized
- Front End (Java) makes Service Calls to RPG / COBOL
- Web based application can be installed on AS/400 itself. This retains AS/400 advantage.
- Database remains on AS/400

TECHNOLOGY

- AS400 (System i)
- RPG, CL
- DB2/400
- J2EE, JSP, Servlet
- JT400
- Java Script, CSS
- Websphere Application Server
- Rational Application Developer 6.0 (Created PCML based Calls)
- STRUTS Framework (MVC)
- Service Oriented Architecture
- iTEXT (Spool to PDF Conversion)
- Web Services (Printing Services)

Printing Process Redefined

Positive ROI

Framework Advantages

- Cost Saver since there is no rewrite.
- Reduced development time and effort.
- Almost no learning curve required.
- Zero Chance of loosing existing functionality
- Solution based on SOA
- Loosely coupled, flexible and scalable
- Reuse of best of AS/400 features like security, processor speed etc
- Enhanced End User experience
- Agile based Delivery Methodology
- Leverage Existing team expertise/ knowledge
- Minimum hw/sw requirements
- Scalable MVC Framework
- Easily integrated/invoked by external interfaces like mobile

KMG's Delivery Approach

- Proof of Concept (Prototyping)
- Signoff
- Modular Approach
- System Requirement Specification (Includes old and new screen layouts, functional flow, Validations)
- Signoff
- System Cutoff (Partial)
- Version Synchronization
- Internal Testing
- Agile Delivery Methodology
- UAT
- Parallel Entry
- Production Roll Out

Thank You!

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