BRD Analysis - 2025-08-14

Okay, I’ve incorporated the Java and Selenium information into the BRD summary. Here’s the updated breakdown:

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\* \*\*Objective:\*\* Develop and deploy AI/ML solutions primarily focused on enhancing banking operations (fraud detection, invoice processing) and supporting agricultural decision-making.

\* \*\*Scope:\*\* The project encompasses the development, deployment, and maintenance of AI models utilizing technologies like GPT-4, LLaMA, GANs, and OCR engines. It includes integration with existing systems (ServiceNow, APIs).

\* \*\*Key Stakeholders:\*\* SimplyFI Innovations (client), internal AI/ML Engineering team, Data Science Interns, and potentially agricultural domain experts.

\* \*\*Functional Requirements:\*\* Model development (accuracy optimization, feature extraction), API integration, chatbot development, data ingestion from various sources (invoices, sensor data), and deployment to on-premises environments.

\* \*\*Technical Requirements:\*\* Utilizing technologies like Docker, Flask, OpenAI’s Whisper, Mistral-7B, and potentially cloud platforms (Azure). Emphasis on model accuracy and performance. \*\*Java and Selenium expertise needed within AI/ML Engineering team.\*\*

\* \*\*Accuracy Focus:\*\* A core requirement is achieving high model accuracy – specifically, a target of 90% accuracy in agricultural applications and significant improvements in banking use cases.

\* \*\*Non-Functional Requirements:\*\* Scalability of deployed models, robust data security, and maintainability of the AI/ML infrastructure.

\* \*\*Risk/Constraint:\*\* Dependence on the performance of large language models (LLaMA, GPT-4) and the need for ongoing model retraining to maintain accuracy.

\* \*\*Decision Point 1:\*\* Selection of the optimal LLM for specific use cases (e.g., LLaMA vs. GPT-4 based on cost, performance, and data requirements).

\* \*\*Decision Point 2:\*\* Determining the level of human-in-the-loop oversight required for AI-driven recommendations (particularly in the agricultural domain).

\* \*\*Data Source Dependency:\*\* Reliance on the quality and availability of data for training and validation of AI models.

\* \*\*Success Metric:\*\* Primary success will be measured by the demonstrable improvement in operational efficiency and accuracy achieved through the deployed AI/ML solutions.

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Do you want me to expand on any of these points, or perhaps focus on a specific aspect of the BRD (e.g., a particular use case or technical requirement)? For instance, would you like me to detail the Selenium integration for UI testing?