📅 Sprint 4 Plan Document

📔 Introduction 🔗

Sprint 4, being the final sprint before the product launch, is focused on finalising all functionalities, conducting extensive testing, and preparing for deployment. The sprint will concentrate on perfecting the user interactions on the Furhat robot, optimising the image recognition capabilities for robust performance, and ensuring comprehensive system integration. This sprint will also involve extensive validation with stakeholders to ensure the system meets all requirements and is ready for public release.

📅 Objectives 🔗

1. **Finalize All System Integrations**: Ensure all components, including the RAG framework, UI, and image recognition, are seamlessly integrated and functioning as expected.
2. **Conduct Extensive Testing and Quality Assurance**: Perform detailed testing across all functionalities to ensure reliability and robustness of the system.
3. **Prepare for Product Launch**: Final preparations for product launch, including final stakeholder reviews, marketing preparations, and training materials for end-users.
4. **Collect Final Stakeholder Feedback**: Engage with stakeholders to gather final feedback and make necessary adjustments before the launch.

🔧 Tasks and Deliverables 🔗

1. **System Integration and Finalization**
   - Ensure that all system components are fully integrated and interacting without issues.
   - Responsible Team: Full Development Team
2. **Testing and Quality Assurance**
   - Perform end-to-end system tests, including stress, performance, and security tests.
   - Conduct user acceptance testing with mock end-users to ensure the system meets user expectations.
   - Responsible Team: Quality Assurance Team
3. **Launch Preparation**
   - Finalize all marketing materials and prepare launch events.
   - Develop comprehensive user manuals and training guides.
   - Responsible Team: Marketing and Support Teams
4. **Stakeholder Review and Feedback**
   - Present the final product to stakeholders for approval and final feedback.
   - Implement any required refinements based on feedback.
   - Responsible Team: Project Management Team

Requirements to Develop 🔗

Requirement	Estimation	Priority	Jira Issue
Furhat Robot interaction Enhanced Image Recognition on Furhat Robot	MEDIUM	SHOULD HAVE	This is a could have because the current image recognition functionality is reaching an acceptable standard, optimasing may lead to a faster-performing one.
Domain-Specific Language Model function	LARGE	MUST HAVE	It is a must have because the LLM model needs to be made sure that it

Robust Integration of RAG with LLM			is stable enough to handle different interations with different users.

⚙️ Technologies to Use 🔗

- **Integration Tools**: Docker, Kubernetes for container management and deployment.
- **Testing Tools**: JIRA for bug tracking.
- **Documentation**: Confluence for documentation.

📈 Expected Outcomes 🔗

- A fully operational and robust Q&A platform ready for public deployment.
- Comprehensive documentation and support structures in place for user onboarding and troubleshooting.
- Final product approved by all stakeholders with all functionalities meeting or exceeding the project specifications.

🔓 Task Dependencies 🔗

- **Final Adjustments Depend on Testing Outcomes**: Final refinements and adjustments to the system will depend heavily on the outcomes from the extensive testing phases.
- **Product Launch Preparation Dependent on Stakeholder Approval**: All launch activities will proceed only after final approval from stakeholders, ensuring all concerns and feedback are adequately addressed.

⚠️ Challenges and Mitigation Strategies 🔗

- **Integration Complexity**: Ensure thorough testing and code reviews to mitigate integration issues.
- **User Acceptance**: Conduct multiple rounds of user acceptance testing to estimate user satisfaction and adjust the product accordingly.

⏳ Next Steps 🔗

- **Complete All Scheduled Testing**: Ensure every component has been tested according to the test plans.
- **Finalise Documentation and Support Resources**: Ensure all user documentation is clear, comprehensive, and ready for distribution.
- **Launch Readiness Review**: Conduct a final review to ensure the product and team are ready for a successful launch.