**NeuroTemplate - Technical Documentation**

**1. Overview**

NeuroTemplate is an AI-powered template generation tool designed to optimize the creation and management of transactional email templates. It integrates seamlessly with DSI platforms, such as Ascend, to streamline template creation, ensuring real-time personalization through dynamic tokens without requiring manual coding.

**2. Key Features**

* **AI-Generated Templates**: Uses AI (Gemini) to automate the creation of structured HTML & Liquid templates.
* **Dynamic Token Integration**: Personalizes emails by embedding real-time data from MLM/DSI platforms.
* **No-Code Editing**: Users can modify and customize templates without technical expertise.
* **Built-in Compliance Handling**: Ensures GDPR-compliant headers/footers are included.
* **Seamless Platform Integration**: Designed to work with existing DSI ecosystems like Ascend.

**3. System Architecture**

**3.1 High-Level Flow**

1. **Trigger Point**: Decision makers request a new transactional email.
2. **Template Creation**: AI generates a structured template with embedded dynamic tokens.
3. **Customization & Validation**: CSR users review, adjust, and approve the template.
4. **Deployment**: The template is pushed into the email system for automation.

**3.2 Components**

* **Frontend**: Web-based UI for template management.
* **Backend**: AI-driven template generation engine.
* **Database**: Stores templates, tokens, and user preferences.
* **API Layer**: Facilitates integration with external platforms like Ascend.

**4. Integration with DSI Platforms**

**4.1 Supported Platforms**

* **Ascend** (Primary Integration)
* **Potential Future Support**: Prowess and other MLM platforms.

**4.2 Data Flow**

1. **Data Input**: Ascend provides order and commission data.
2. **Processing**: NeuroTemplate processes and maps data to pre-configured tokens.
3. **Output**: AI-generated template with embedded real-time information.

**5. Template Structure**

Templates are structured in **HTML & Liquid**, allowing dynamic data insertion. Example:

<html>

<body>

<h1>Order Confirmation</h1>

<p>Thank you {{ customer.first\_name }} for your order #{{ order.id }}.</p>

<p>Tracking Number: {{ order.tracking\_number }}</p>

</body>

</html>

**6. Compliance & Security**

**6.1 GDPR & Data Protection**

* Ensures that all generated templates include **GDPR-compliant headers & footers**.
* Provides clear data usage disclaimers in transactional emails.

**6.2 Security Best Practices**

* TLS encryption for data transmission.
* Role-based access control for managing template modifications.
* Logs and audit trails for monitoring template changes.

**7. Future Enhancements**

* **Expansion to Other Platforms**: Additional integrations beyond Ascend.
* **Enhanced AI Training**: More contextual awareness for better template generation.
* **Multi-Language Support**: Automating template translation.

**8. Conclusion**

NeuroTemplate revolutionizes transactional email creation by eliminating manual processes and ensuring a streamlined, AI-powered approach. With its seamless integration, compliance handling, and automation capabilities, it sets a new standard for template management in the DSI ecosystem.