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How do I set up the initial agent in Vertex AI Agent Builder to scan a PDF or Microsoft Word document using Document AI, extract specific information based on the user's prompt, and handle user file uploads? Please provide details on what to fill in each section, including the appropriate settings for document processing and user interface design.

Copilot

Certainly! To set up the initial agent in Vertex AI Agent Builder for document processing and user file uploads, follow these steps:

1. **Create a Google Cloud Project**:

   - In the Google Cloud console, select or create a Google Cloud project.
   - Ensure billing is enabled for your project.
   - If you plan to use the API, install the Google Cloud CLI with `gcloud init`.

2. **Activate Vertex AI Agent Builder**:

   - Go to the Agent Builder page in the Google Cloud console.
   - Read and agree to the Terms of Service, then activate the API.
   - Accept the Discovery Solutions data use terms for each project you want to use Vertex AI Agent Builder with.

3. **Access Control**:

   - Configure access control at the project level.
   - Grant the Discovery Engine Admin role to a principal for the project containing the Vertex AI Agent Builder engine.
   - If you're an owner of the project, you automatically have the Discovery Engine Admin role.
   - For other users, groups, and service accounts, use IAM to manage access control.

4. **Build Your Agent**:

   - Navigate to the Agents section in Vertex AI.
   - Create a new agent by defining its goal, step-by-step instructions, and conversational examples.
   - Use the no-code agent building console to deploy generative AI agents using Google's latest Gemini models.

5. **Integrate Document AI**:

   - Import unstructured documents (PDFs, Word files, etc.) into a Cloud Storage location.
   - Process the imported documents using the layout parser and Vertex AI RAG APIs.

6. **User Interface Design**:

   - Customize the user interface for your agent using Flutter or other relevant tools.

Remember to adjust settings based on your specific use case and requirements. If you need further assistance, feel free to ask! 😊