

Sprint Name: Virtual Assistants & AI Integration

Sprint #: 4

Purpose:

Introduce AI-powered Virtual Assistants (VAs) into the Tamiti platform to support internal productivity, automate insights, and integrate OpenAI for intelligent summaries and contextual chat support.

Summary of Deliverables

1. User & Account Model Enhancements

- **Added `name` field** to `StaffProfile` for non-User identities (e.g. VAs).
- **Made `user` nullable** to support virtual assistant profiles.
- **Refined `__str__` logic** for clarity when displaying names.

```
```python
```

```
class StaffProfile(BaseModel):
```

```
 user = models.OneToOneField(User, on_delete=models.CASCADE, null=True, blank=True)
```

```
 name = models.CharField(max_length=255, blank=True)
```

```
```
```

2. Assistants App Setup

- New Django app: `assistants`
- Models:
 - `VACommand`
 - `DefaultResponse`

- `AssistantLog`

3. Virtual Assistant Logic

- `resolve_va_command`, `generate_gpt_response`, `process_va_chat`

- Handles:

- Command match
- GPT fallback
- Conversation logging

4. OpenAI Integration

- SDK: `pip install openai`
- `.env` key: `OPENAI_API_KEY=sk-xxxxx`
- `getattr(settings, 'OPENAI_API_KEY')` usage

5. VA Seeding Script

```
```bash
python manage.py seed_virtual_profiles
```
```

Creates:

- Tami (Mascot)
- Tendo Kyeza (Project Manager)
- Jessica Cruz (Finance Lead)
- Alfred Butler (Field Ops Lead)
- Hope Nansubuga (People & HR)

6. Admin Enhancements

- `StaffProfileAdmin` now shows:

- VA flag
- Name/user logic
- Filters for departments and branches

7. Shell Test

```
```python
```

```
from assistants.services import process_va_chat
```

```
from accounts.models import StaffProfile
```

```
va = StaffProfile.objects.filter(role__is_virtual=True).first()
```

```
response = process_va_chat(va.role, "give me a summary", user=None)
```

```
print(response)
```

```
```
```

Setup Recap

```
```bash
```

```
pip install openai
```

```
python manage.py startapp assistants
```

```
python manage.py makemigrations assistants
```

```
python manage.py migrate
```

```
python manage.py seed_virtual_profiles
```

```
```
```

```
---
```

Great Work!

This sprint sets the foundation for an intelligent assistant-driven platform. Tamiti is now GPT-powered!