Subscription Microservice

subscription_service/main.py

```python
from fastapi import FastAPI
from app.api import subscriptions, plans
import uvicorn

app = FastAPI()

app.include_router(subscriptions.router, prefix="/subscriptions")
app.include_router(plans.router, prefix="/plans")

if __name__ == "__main__":
    uvicorn.run("main:app", host="0.0.0.0", port=8000)
```

subscription_service/config.py

```python
from dotenv import load_dotenv
import os

load_dotenv()

DATABASE_URL = os.getenv("DATABASE_URL")
JWT_SECRET = os.getenv("JWT_SECRET")
```

subscription_service/.env

```
DATABASE_URL=postgresql://postgres:password@localhost:5432/subscription_db
JWT_SECRET=supersecretkey
```

subscription_service/requirements.txt

```
fastapi
uvicorn
python-dotenv
sqlalchemy
psycopg2-binary
pydantic
pyjwt
passlib
celery
redis
```

subscription_service/Dockerfile

```
FROM python:3.10-slim
WORKDIR /app
COPY requirements.txt .
RUN pip install --no-cache-dir -r requirements.txt
COPY . .
CMD ["uvicorn", "main:app", "--host", "0.0.0.0", "--port", "8000"]
```

subscription_service/app/api/subscriptions.py

```
# subscriptions.py
```

subscription_service/app/api/plans.py

```
# plans.py
```

subscription_service/app/models/schemas.py

```
# schemas.py
```

subscription_service/app/models/database.py

```
# database.py
```

subscription_service/app/db/models.py

```
# models.py
```

subscription_service/app/repository/subscription_repo.py

```
# subscription_repo.py
```

subscription_service/app/repository/plan_repo.py

```
# plan_repo.py
```

subscription_service/app/core/logic.py

```python
# logic.py
```

subscription_service/app/auth/jwt_handler.py

```python
# jwt_handler.py
```

subscription_service/app/auth/auth_bearer.py

```python
# auth_bearer.py
```

subscription_service/app/tasks/celery_worker.py

```python
# celery_worker.py
```

subscription_service/app/tasks/tasks.py

```python
# tasks.py
```