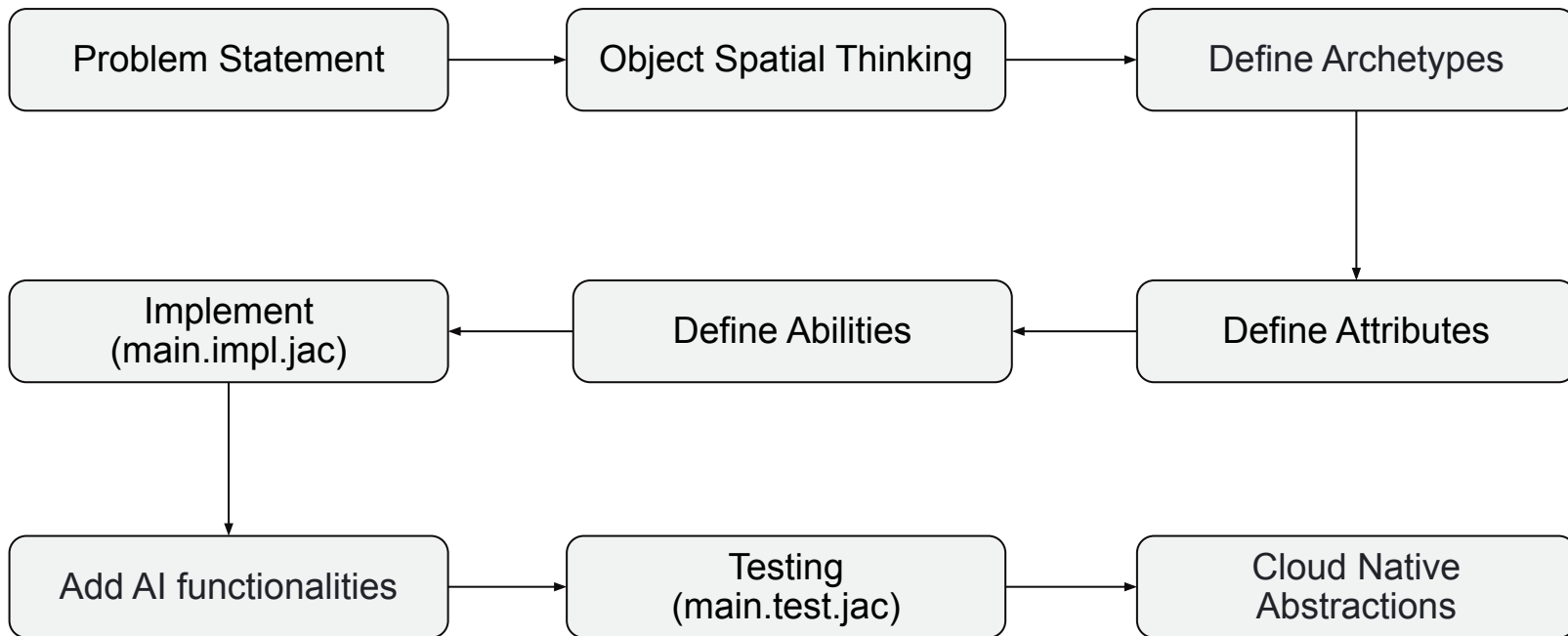
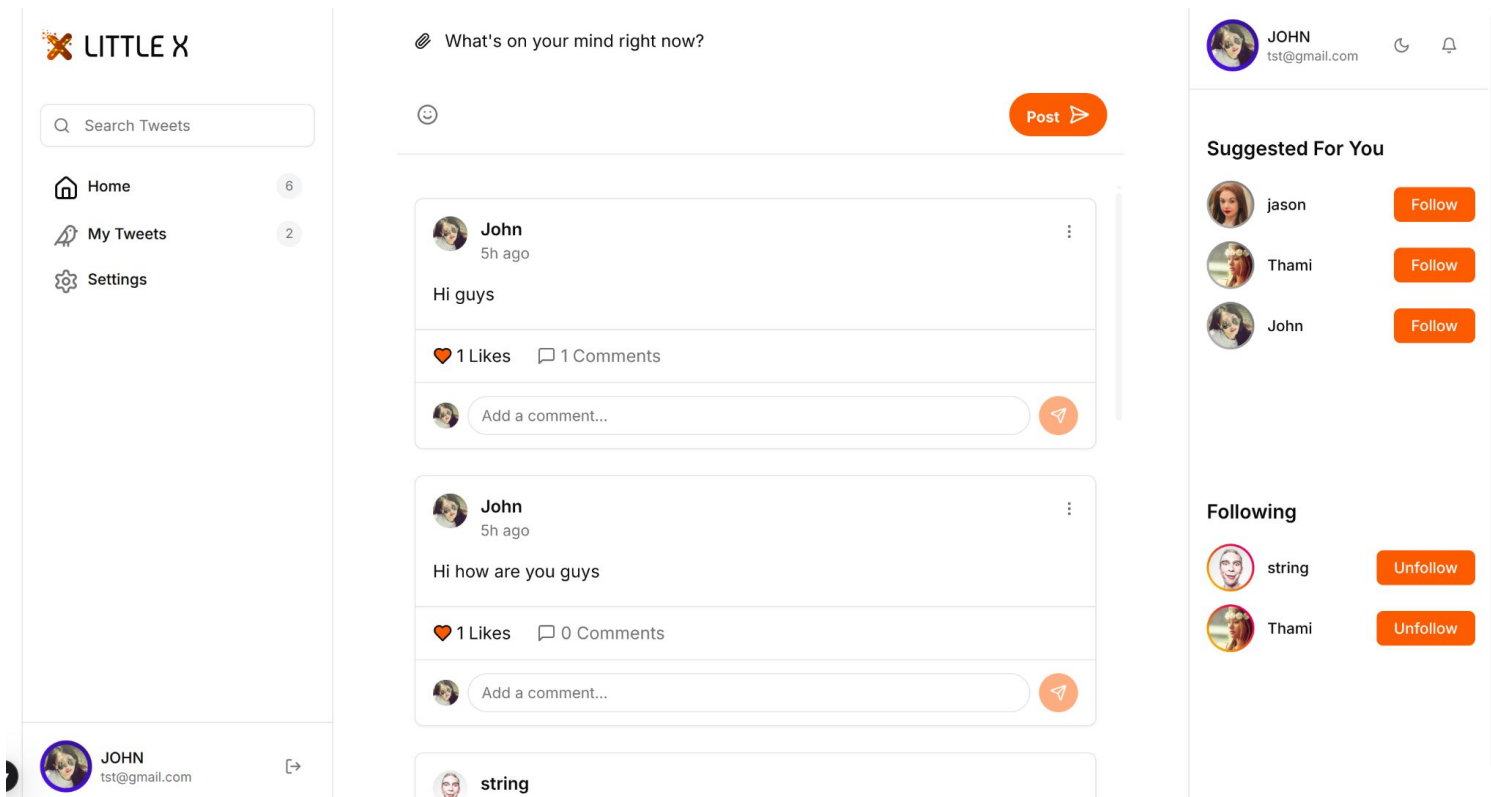
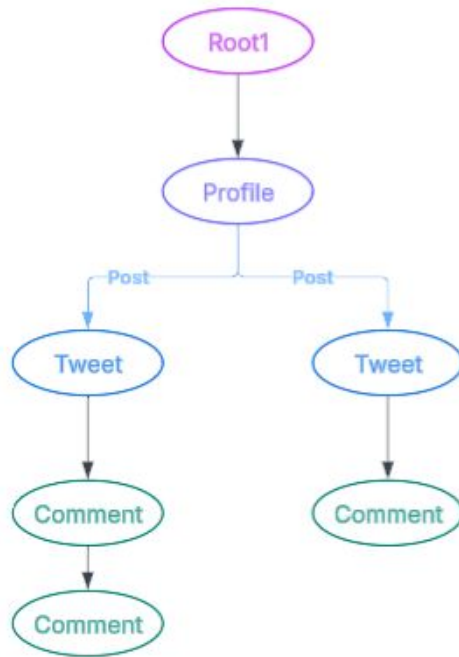


Jaseci Seminar



LittleX: A Minimalistic Social Media Platform Prototype





Single User

Nodes

Profile

Tweet

Comment

Edges

Post

Walkers

create_profile

update_profile

```
```jac
Define Profile node
node Profile {}

Define Tweet node
node Tweet {}

Define Comment node
node Comment {}

Define Post edge
edge Post {}

Define create profile
walker create_profile {}

Define update profile
walker update_profile {}
```
```

```
```jac
Define Profile node
node Profile {
 has username: str = "";
}

Define Tweet node
node Tweet {
 has content: str;
}

Define Comment node
node Comment {
 has content: str;
}

...
```
```

```
```jac
Define Post edge
edge Post {}

Define create profile
walker create_profile {
 has username: str;
}

Define update profile
walker update_profile {
 has new_username: str;
}

...
```
```

```
```jac
Define Profile node
node Profile {
 has username: str = "";

 # Declare update ability
 can update with update_profile entry;
}

Define Tweet node
node Tweet {
 has content: str;
}

Define Comment node
node Comment {
 has content: str;
}

...
```
```

```
```jac
Define Post edge
edge Post {}

Define create profile
walker create_profile {
 has username: str;

 # Declare create ability
 can create with `root entry;
}

Define update profile
walker update_profile {
 has new_username: str;
}

...
```
```

```
```jac
Define create ability
impl create_profile.create {
 if not [here -> (`?Profile)] {
 here ++> Profile(self.username);
 }
 # if not [root -> (`?Profile)] {
 # root ++> Profile(self.username);
 # }
}
```
```

```
```jac
Define update ability
impl Profile.update {
 self.username = visitor.username;
}
```
```



```
```jac
import from mtlm.llm { Model }

glob llm = Model(model_name="gemini/gemini-2.5-flash");

def translate(eng_sentence: str, target_lang: str) -> str by llm();

with entry {
 print(translate("Hello World", "Language spoken in Somalia"));
 print(translate("Good morning", "The language of Cervantes"));
 print(translate("Thank you", "What people speak in Tokyo"));
}
```
```

```
```jac
Test create ability
test create_profile_walker {
 root spawn create_profile("Elon");
 profile = [root --> (`?Profile)][o];
 check instanceof(profile, Profile);
 check profile.username == "Elon";
}
...`
```

```
```jac
# Test update ability
test update_profile_walker {
  root spawn update_profile("Musk");
  profile = [root --> (`?Profile)][o];
  check profile.username == "Musk";
}
...`
```

