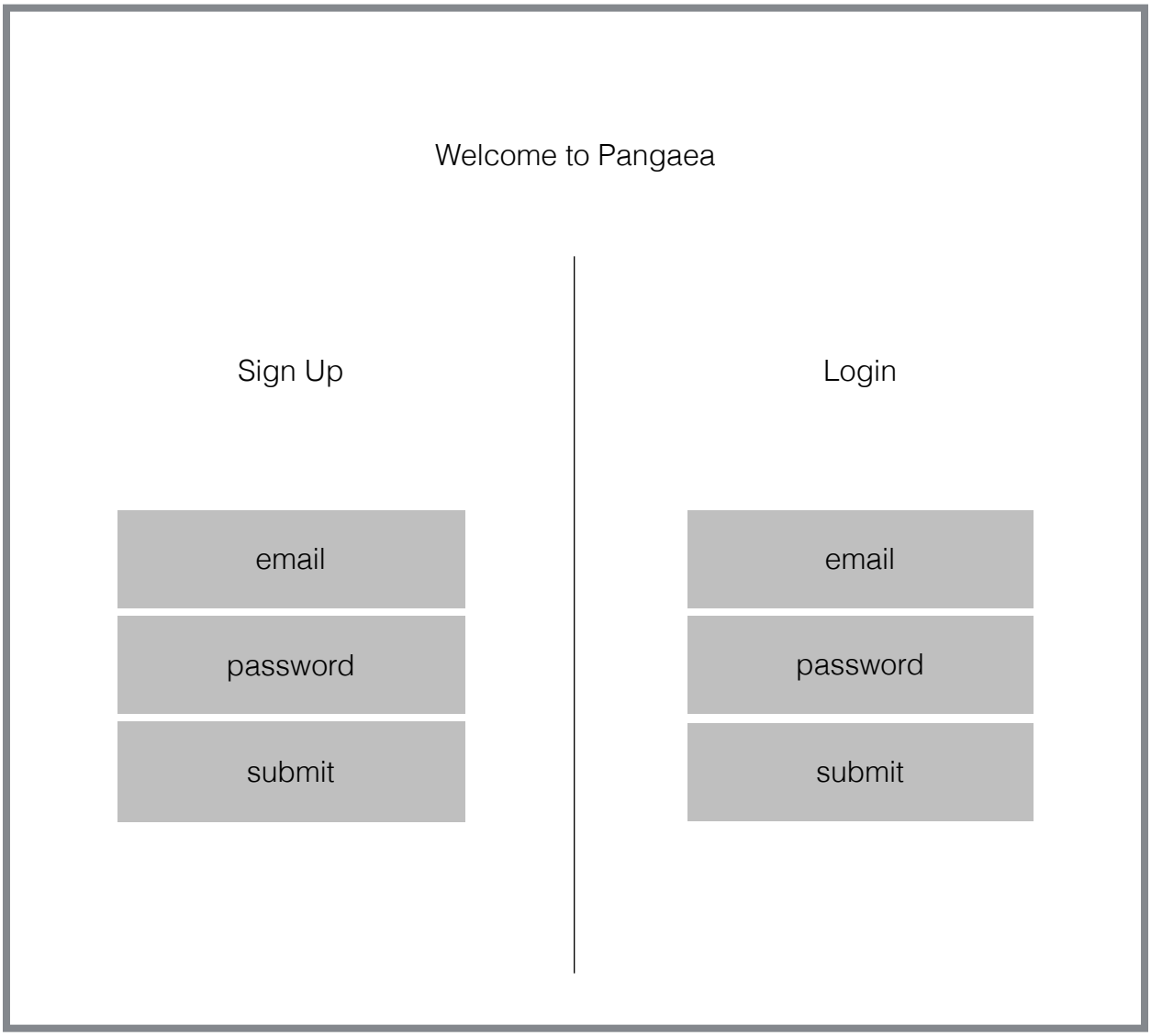
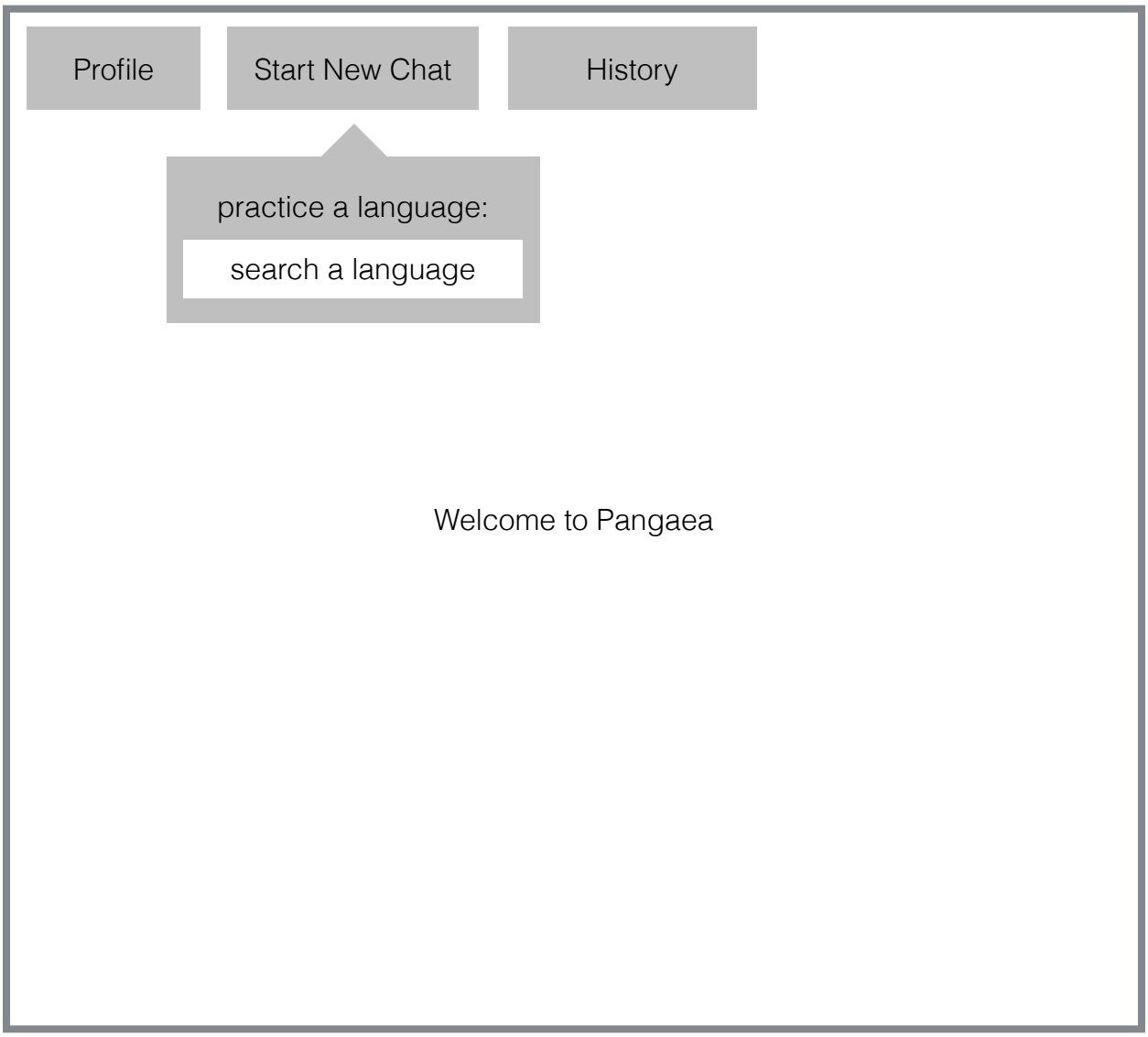
User Interface Wireframes

Login Screen



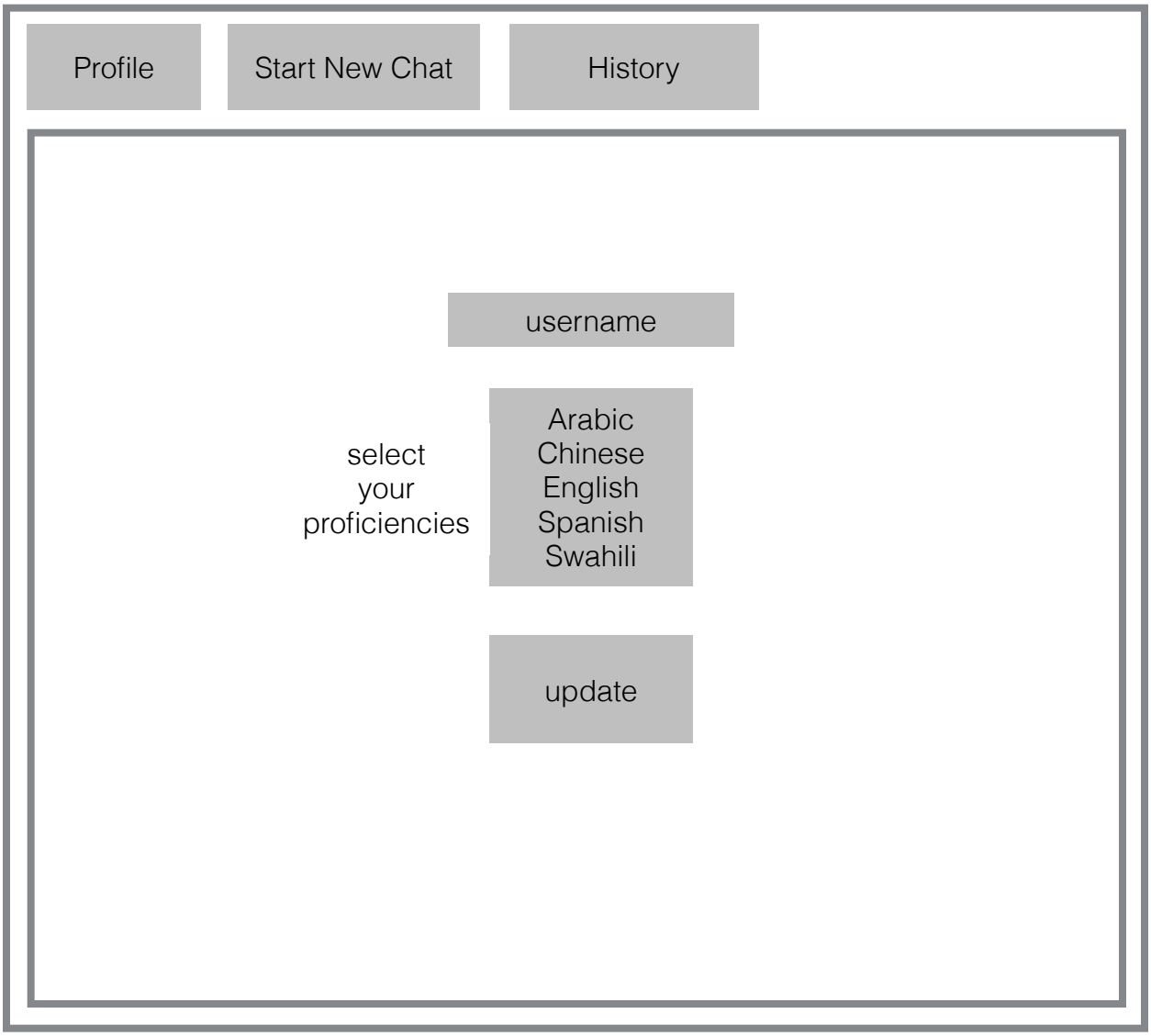
User Interface Wireframes (cont'd)

Welcome Screen



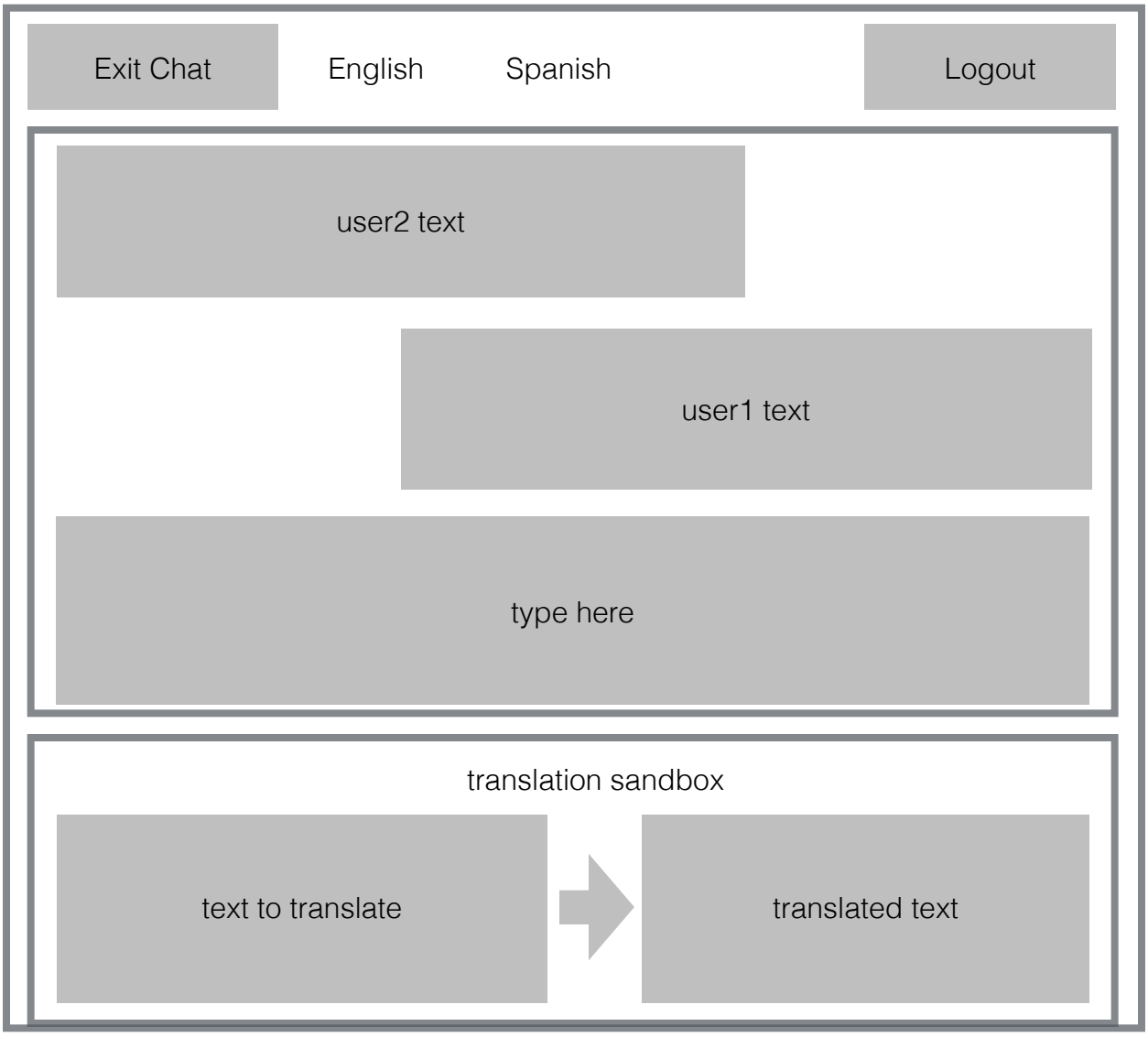
User Interface Wireframes (cont'd)

Profile Screen



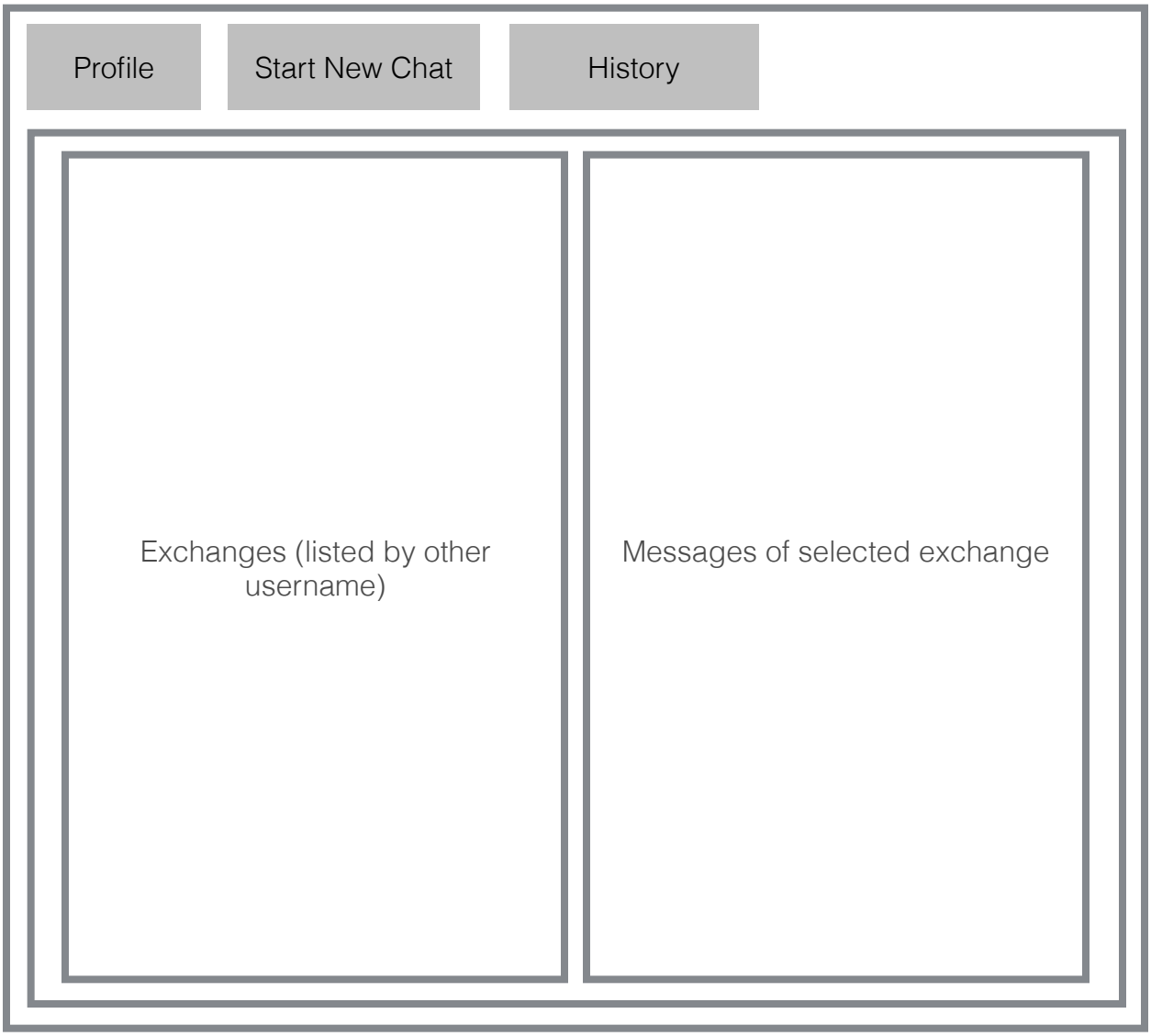
User Interface Wireframes (cont'd)

Chat Screen

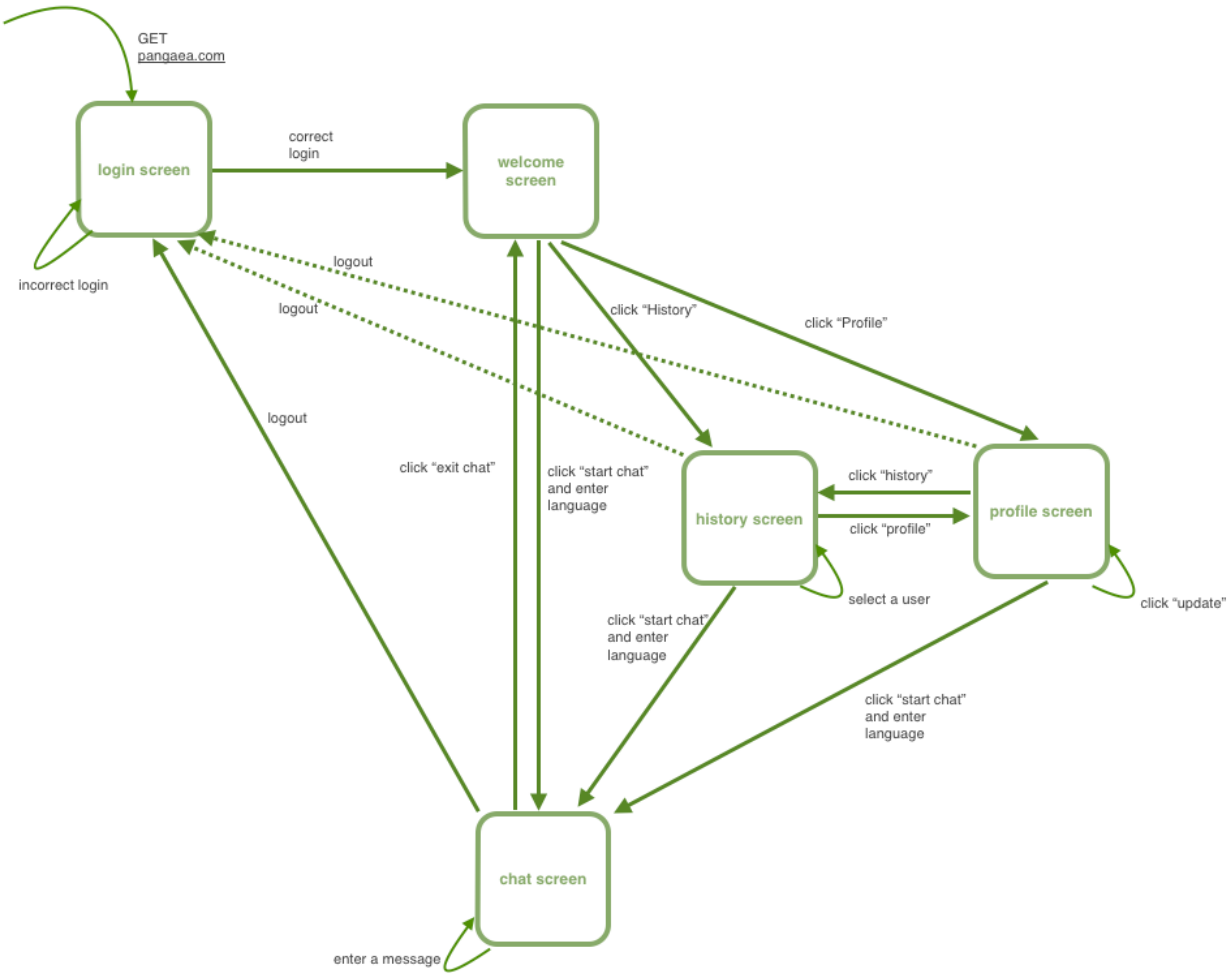


User Interface Wireframes (cont'd)

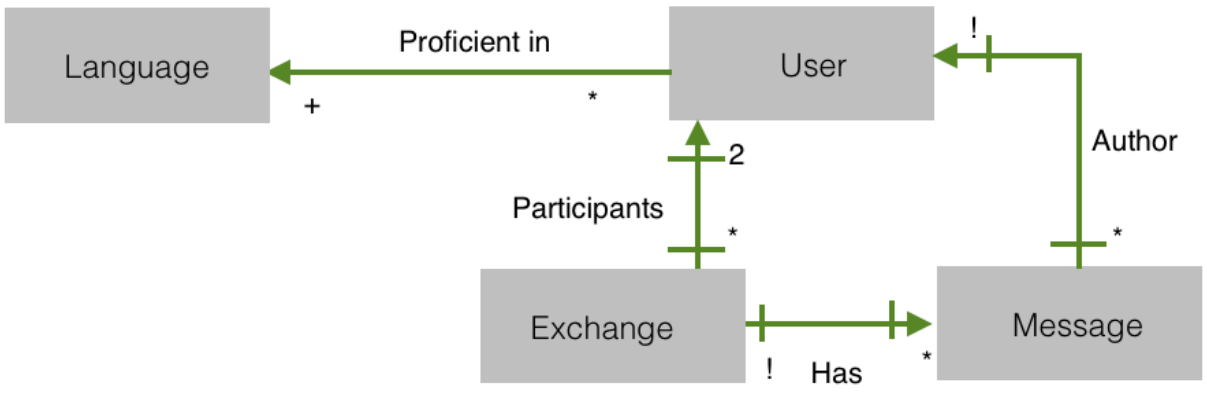
History Screen



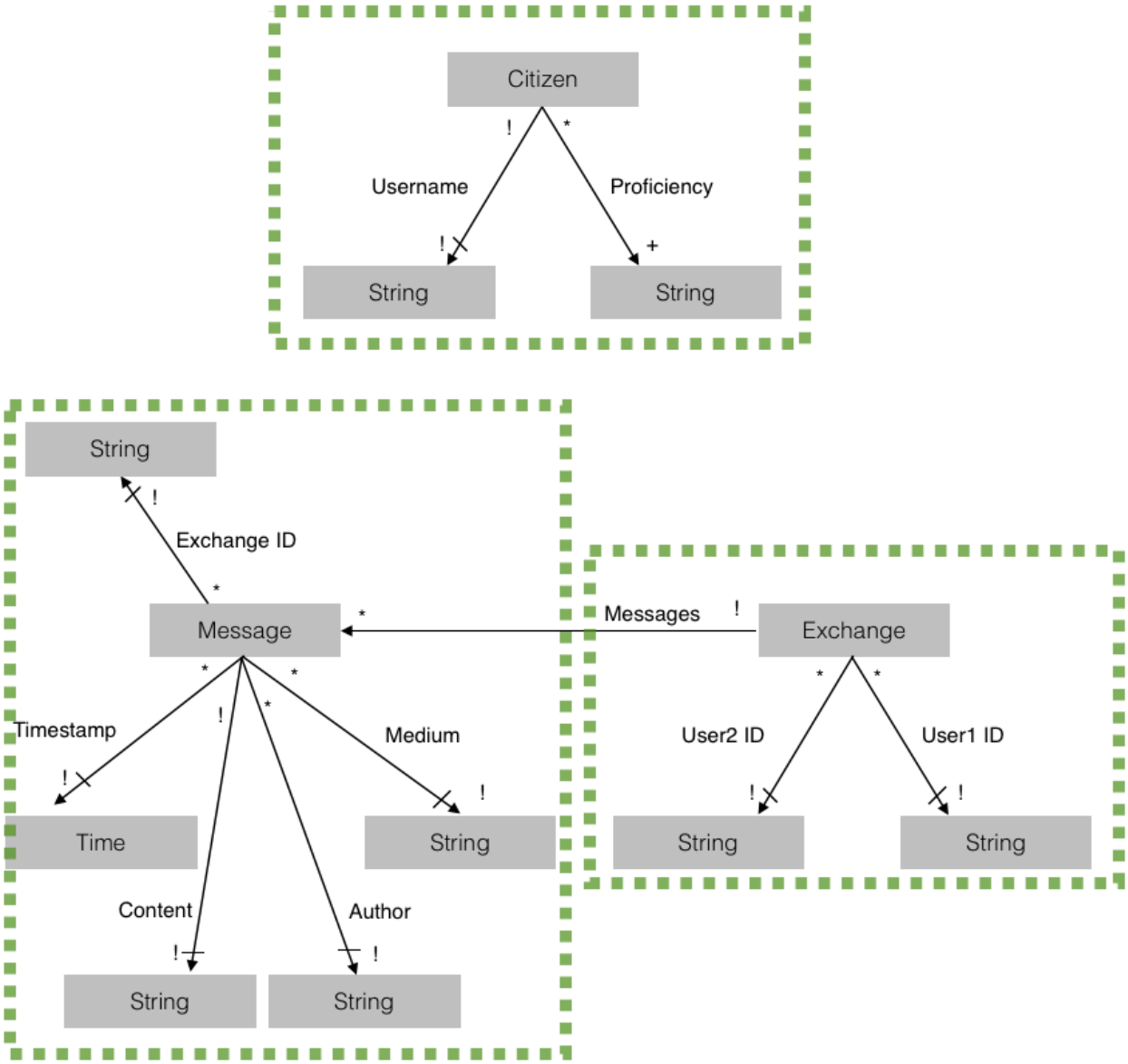
Flow Wireframe



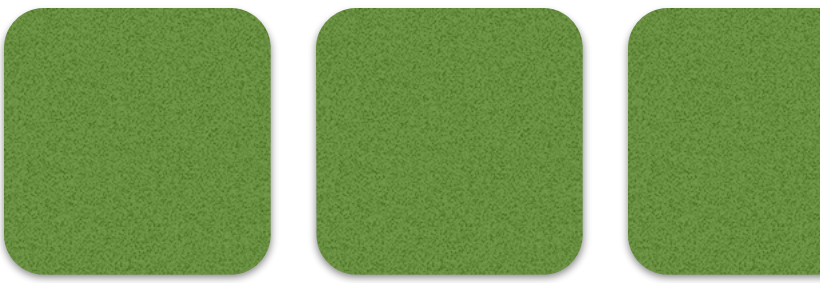
Data Model


Language
Proficient in
User
+
*
!
Author
2
Participants
*
*
Exchange
Message
!
Has
*

Data Design



Citizen
!
*
Username
Proficiency
!
+
String
String
String
!
Exchange ID
*
Message
*
Messages
!
Exchange
*
*
*
*
Timestamp
!
Medium
!
!
Time
String
Content
Author
!
!
String
String
*
*
User2 ID
User1 ID
!
!
String
String

Data Design Example

```
Citizen
{
Username: “Joe”,
 Proficiency: [“Spanish”,”English”]
}

Exchange
{
User1ID: “123”,
User2ID: “456”
Messages:[
     {
     Medium: “Text”,
     Author: “Bob”,
     Content: “Hola!”,
     Timestamp: “1416369281003”,
     ExchangeID: “507f1f77bcf86cd799439011”
     },
     {
     Medium: “Text”,
     Author: “Joe”,
     Content: “Muy bien”,
     Timestamp: “1416369281004”,
     ExchangeID: “507f1f77bcf86cd799439011”
     }
}
```