SOFTWARE DESIGN SPECIFICATION

ConnectTree Application

Version 1.0

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Contents

1 System Description

Purpose
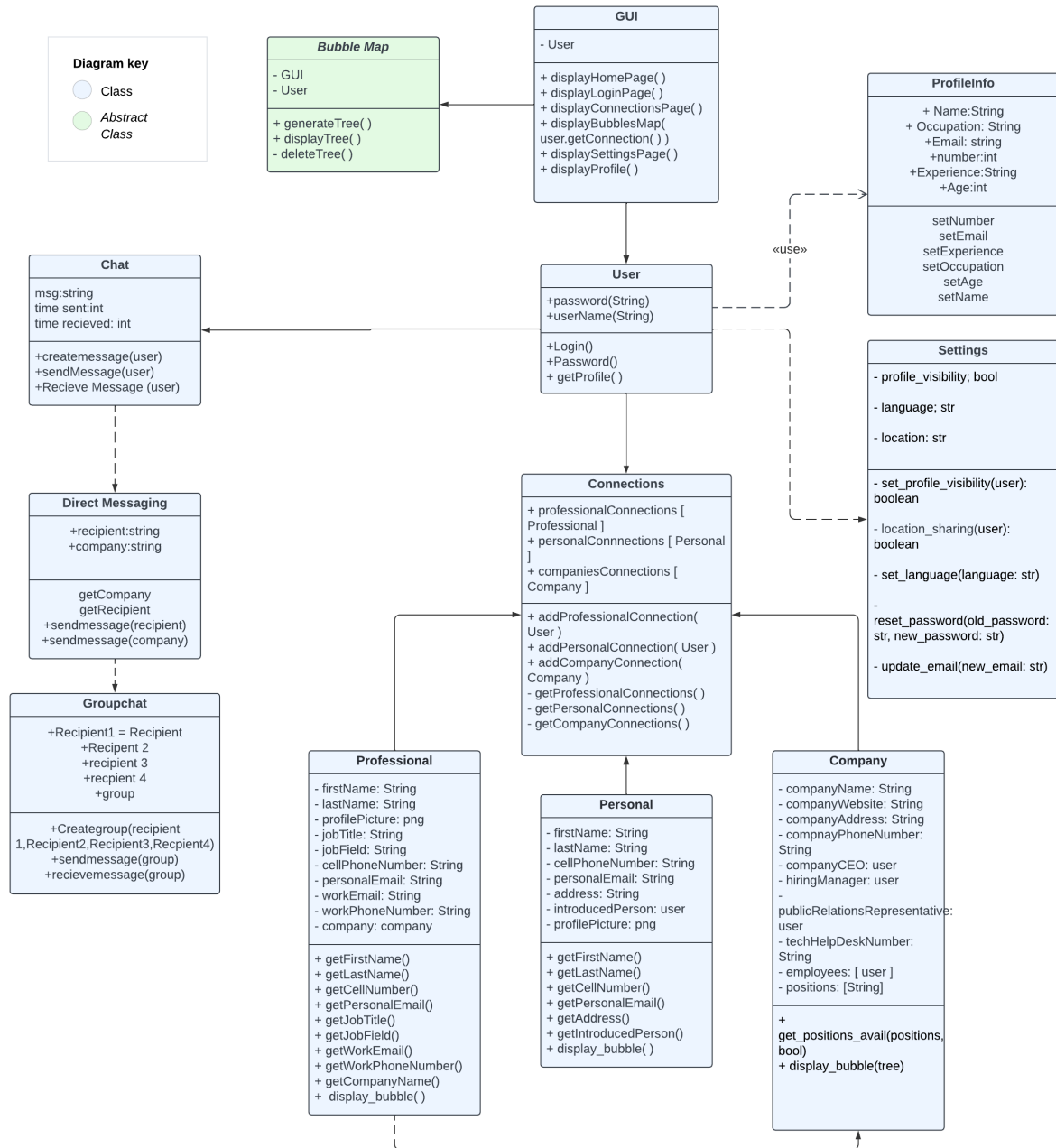
Target Audience

Definitions, acronyms, and abbreviations

2 Software Architecture Overview

Architectural Diagram

Description of Components

ULM Class Diagram

Diagram key

⚪ Class

🟢 *Abstract Class*

Bubble Map

- GUI
- User

+ generateTree( )
+ displayTree( )
- deleteTree( )

GUI

- User

+ displayHomePage( )
+ displayLoginPage( )
+ displayConnectionsPage( )
+ displayBubblesMap(user.getConnection( ))
+ displaySettingsPage( )
+ displayProfile( )

ProfileInfo

+ Name:String
+ Occupation: String
+Email: string
+number:int
+Experience:String
+Age:int

setNumber
setEmail
setExperience
setOccupation
setAge
setName

«use»

User

+password(String)
+userName(String)

+Login()
+Password()
+ getProfile( )

Settings

- profile_visibility; bool

- language; str

- location: str

- set_profile_visibility(user): boolean

- location_sharing(user): boolean

- set_language(language: str)

- reset_password(old_password: str, new_password: str)

- update_email(new_email: str)

Chat

msg:string
time sent:int
time recieved: int

+createmessage(user)
+sendMessage(user)
+Recieve Message (user)

Direct Messaging

+recipient:string
+company:string

getCompany
getRecipient
+sendmessage(recipient)
+sendmessage(company)

Groupchat

+Recipient1 = Recipient
+Recipent 2
+recipient 3
+recpient 4
+group

+Creategroup(recipient 1,Recipient2,Recipient3,Recpient4)
+sendmessage(group)
+recievemessage(group)

Connections

+ professionalConnections [Professional]
+ personalConnnections [Personal]
+ companiesConnections [Company]

+ addProfessionalConnection(User)
+ addPersonalConnection(User)
+ addCompanyConnection(Company)
- getProfessionalConnections( )
- getPersonalConnections( )
- getCompanyConnections( )

Professional

- firstName: String
- lastName: String
- profilePicture: png
- jobTitle: String
- jobField: String
- cellPhoneNumber: String
- personalEmail: String
- workEmail: String
- workPhoneNumber: String
- company: company

+ getFirstName()
+ getLastName()
+ getCellNumber()
+ getPersonalEmail()
+ getJobTitle()
+ getJobField()
+ getWorkEmail()
+ getWorkPhoneNumber()
+ getCompanyName()
+ display_bubble( )

Personal

- firstName: String
- lastName: String
- cellPhoneNumber: String
- personalEmail: String
- address: String
- introducedPerson: user
- profilePicture: png

+ getFirstName()
+ getLastName()
+ getCellNumber()
+ getPersonalEmail()
+ getAddress()
+ getIntroducedPerson()
+ display_bubble( )

Company

- companyName: String
- companyWebsite: String
- companyAddress: String
- compnayPhoneNumber: String
- companyCEO: user
- hiringManager: user
- publicRelationsRepresentative: user
- techHelpDeskNumber: String
- employees: [user]
- positions: [String]

+ get_positions_avail(positions, bool)
+ display_bubble(tree)

Description of Classes

Description of Attributes

Description of Operations

3 Development Plan and Timeline

Development Model

Partitioning of Tasks

Timeline