Projektdokumentation EVA

Chatclient und Serveranwendung

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Studiengang: Medieninformatik

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1. Motivation

Im Rahmen des Vorlesungsmoduls Entwicklung Verteilter Anwendungen soll ein Programm entwickelt werden, welches auf einer Server- als auch Client-Anwendung aufbaut. In dieser Vorlesung wurden die Grundlagen der verteilten Anwendungen gelegt und wie es sichergestellt werden kann, dass das Programm über Fehlerrobustheit verfügt.

Hierzu wurde sich auf ein Chat-Programm konzentriert, bei dem zwei Personen über die Client-Anwendung miteinander kommunizieren können.

Die Software sollte folgende Eigenschaften besitzen:

- Sollte ein Anwender die Verbindung verlieren, so bekommt sein Chatpartner die Verbindung, dass sein Gegenüber nicht mehr vorhanden ist
- Sollte die Verbindung wieder zu Stande kommen, da es sich nur einen kurzen Verlust der Verbindung handelte, so wird seinem Chatpartner die Anwesenheit seines Gegenübers angezeigt, solange sich dieser das Chatprogramm noch geöffnet hat
- Sollte ein Client geschlossen werden, wird dies seinem Gegenüber angezeigt
- Man muss sich mit einem Benutzernamen anmelden
- Durch die Eingabe des Nutzernamens, kann mit dem jeweiligen Nutzer gechattet werden
- Die Uhrzeit der gesendeten Nachricht wird angezeigt
- Das Programm läuft auf der Kommandozeile und hat keine grafische Oberfläche

2. Problembeschreibung und Umsetzung

Das Programm wurde in der Entwicklungsumgebung Eclipse entwickelt.

Zuerst wurde versucht, die Datei für den Server zu erstellen. Danach wurde der Chatclient entwickelt.

Das Verbinden des Chatclients mit dem Server hat am meisten Zeit in Anspruch genommen.

Zuerst wurde über einen localhost der Server mit dem Client verbunden.

Nach späterem übertragen der Server-Datei auf den Hochschulserver kam es wieder zu Problemen zu Connect Problemen.

Nach separatem Compilen der beiden Anwendungen, warf der Chatclient viele Fehler auf, da er Klassenprobleme aufzeigte.

Folgend die Probleme:

6 errors 10 warnings 0 others (Filter matched 110 of 124 items)				李
6 errors, 18 warnings, 0 others (Filter matched 118 of 134 items)		8.1		-
escription	Resource	Path	Location	Type
© Errors (100 of 116 items)			100	
SpringBootTest cannot be resolved to a type		/chatclient/chatserver		Java Proble
😉 Test cannot be resolved to a type		/chatclient/chatserver		Java Proble
😘 The constructor User(String, String) is undefined	ChatClientUI.java	/chatclient/src/main/j	line 108	Java Proble
😉 The constructor User(String, String) is undefined	ChatserverAppl	/chatclient/chatserver	line 19	Java Proble
😉 The constructor User(String, String) is undefined	ChatserverAppl	/chatserver/src/test/j	line 19	Java Proble
unterproperties The constructor User(String, String) is undefined	SimpleUserRep	/chatclient/chatserver	line 15	Java Proble
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		/chatserver/src/main/		
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😘 The constructor User(String, String) is undefined	SimpleUserRep	/chatserver/src/main/	line 26	Java Proble
😉 The declared package "" does not match the expected package ".mvn.wrapper"	MavenWrapper	/chatclient/chatserver	line 1	Java Proble
	f WebSocketCon	/chatclient/chatserver	line 1	Java Proble
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Markers Properties Servers Data Source Explorer Snippets Problems Console Call Hierarchy 6 errors, 18 warnings, 0 others (Filter matched 118 of 134 items) 9 escription 1 The declared package "com.chatserver.confrig" does not match the expected package "src.main.java.com.chatserver.com 1 The declared package "com.chatserver.controller" does not match the expected package "src.main.java.com.chatserver.com 2 The declared package "com.chatserver.controller" does not match the expected package "src.main.java.com.chatserver.com 3 The declared package "com.chatserver.controller" does not match the expected package "src.main.java.com.chatserver.com 4 The declared package "com.chatserver.controller" does not match the expected package "src.main.java.com.chatserver.com 5 The declared package "com.chatserver.persistence" does not match the expected package "src.main.java.com.chatserver.com 6 The declared package "com.chatserver.persistence" does not match the expected package "src.main.java.com.chatserver.com 7 The declared package "com.chatserver.persistence" does not match the expected package "src.main.java.com.chatserver.com 8 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "com.chatserver" does not match the expected package "src.main.java.com.chatserver.com 9 The declared package "src.main.java.com.chatserver.com 9 The method aslist(T) in the type Arrays is not applicable for the argum	Resource WebSocketCon Authentication ChatController.j Message.java Message.java Message.java Authentication ChatserverAppl Chatservice.java	Path /chatclient/chatserver /chatclient/sratserver /chatclient/srcyrain/j /chatclient/src/main/j	Location line 1 line 5 line 7 line 10 line 14 line 24 line 14 line 14 line 14 line 15 line 11 l	Type Java Proble



Insgesamt nahm das Projekt 6 Wochen in Anspruch.

3. Anleitung

Das Programm ist in zwei Teile aufgeteilt:

Man muss die Server Datei auf den Hochschulserver überspielen.

Dort muss die Datei chatserver.jar in der Kommandozeile ausgeführt werden: java –jar chatserver.jar

Nachdem die Datei ausgeführt wurde und keine Fehlermeldung zeigt, kann man sich dem Chatclient widmen.

Es ist die Kommandozeile zu öffnen.

Dort ist sich in das Verzeichnis mit dem chatclient.jar zu navigieren.

Nun wird der chatclient.jar ausgeführt: java -jar chatclient.jar

Sollte das Programm Fehlerfrei funktionieren, wird man zur Chat World begrüßt.

Nun wird man aufgefordert einen Username einzugeben. Es kann zwischen (test1, ..., test12) ausgewählt werden.

Das password ist für alle User: 123456789

Nun kann man sich per Eingabe der 1 die logged User ansehen.

Per 2 einen Chat starten.

Per 3 den Chatraum verlassen.

Nach dem versenden der Chatnachricht werden immer Uhrzeit und Datum der gesendeten Nachricht angezeigt.

Sollte der Nutzer länger abwesend sein, wird dies seinem Gegenüber mitgeteilt.