Main	GUI	Server
SimpleDateFormat: FORMAT	JTextField: curr_time	int: DEFAULT_PORT
main(String[]): void	JButton: start	int: port_no
getCurrTime(void): String	JButton: stop	ServerSocket: server_socket
3 () 3	JTextArea: shares	ExecutorServer: executor
	JTextArea: history	boolean: is_running
ConnectionHandler	JScrollPane: scroll	Semaphore: mutex
BufferedReader: input_buf	GridBagLayout: layout	GUI: gui
PrintWriter: output_buf	Timer: updateTime	HashMap: data
Socket: socket	Timer: update_data	Server(int, GUI): Server
Semaphore: mutex	Thread: server_thread	run(void): void
HashMap: data	Server: server	set_running(boolean): void
GUI: gui	init(void): void	get_port_number(void): int
ConnectionHandler(Socket, Semaphore,	add_to_history(String): void	get_socket(void): int
HashMap, GUI): ConnectionHandler run(void): void	createAndShow(void): void	get_data(void): HashMap
	•	initialise_data(void): void
	\bigvee	get_data_string(HashMap): String
	StartButtonActionListener	get_semaphore(void): Semaphore
	GUI: gui	
	StartButtonActionListener(GUI): StartButtonActionListener	
	GetGUI(void): GUI	
	ActionPerformed(ActionEvent): void	
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«interface» Runnable	«interface» ActionListener	«interface» Runnable