

Solution 5: Web Chat



```
import tornado.ioloop
import tornado.web

import corkboard

board = corkboard.CorkBoard()
corkboard.make_example_data(board)

class ChatHandler(tornado.web.RequestHandler):

    def get(self):

        sender = self.get_argument("sender",None)
        message = self.get_argument("message",None)
        # filter = self.get_argument("filter",None)
        # clear = self.get_argument("clear",None)

        if (sender and message):
            m = corkboard.Message(sender,message,"NOW")
            board.post_message(m)

        # We'll send this back as a shortcut
        if not sender:
            sender = ''
```



```
        self.write(  
        ""  
        <html>  
  
            <H1>Web Chat</H1>  
  
            <style>  
                table, th, td {  
                    border: 1px solid black;  
                    border-collapse: collapse;  
                }  
            </style>  
  
            <table>  
            <tr>  
                <th>Date</th>  
                <th>Sender</th>  
                <th>Message</th>  
            </tr>  
        ""  
        )
```



```
for post in board.get_messages():
    self.write("<tr><td>" + post.get_date() + "</td><td>" + post.get_sender() + "</td><td>" + post.get_message() + "</td></tr>")

    self.write(
"""
</table>

<hr>

<form action="chat">
    Filter: <input type="text" name="filter">
    <input type="checkbox" name="clear">Clear Messages
    <p>
    Sender: <input type="text" name="sender" value='""'+sender+""'+>
    Message: <input type="text" name="message">
    <input type="Submit">
</form>

</html>
""")
```



```
if __name__ == "__main__":
```

```
    # http://localhost/chat?sender=Chris&date=10/8/2017&message=anybody%20out%20there?
```

```
    handlers = [  
        ("/chat", ChatHandler)  
    ]
```

```
    app = tornado.web.Application(handlers)  
    app.listen(80)  
    tornado.ioloop.IOLoop.current().start()
```

