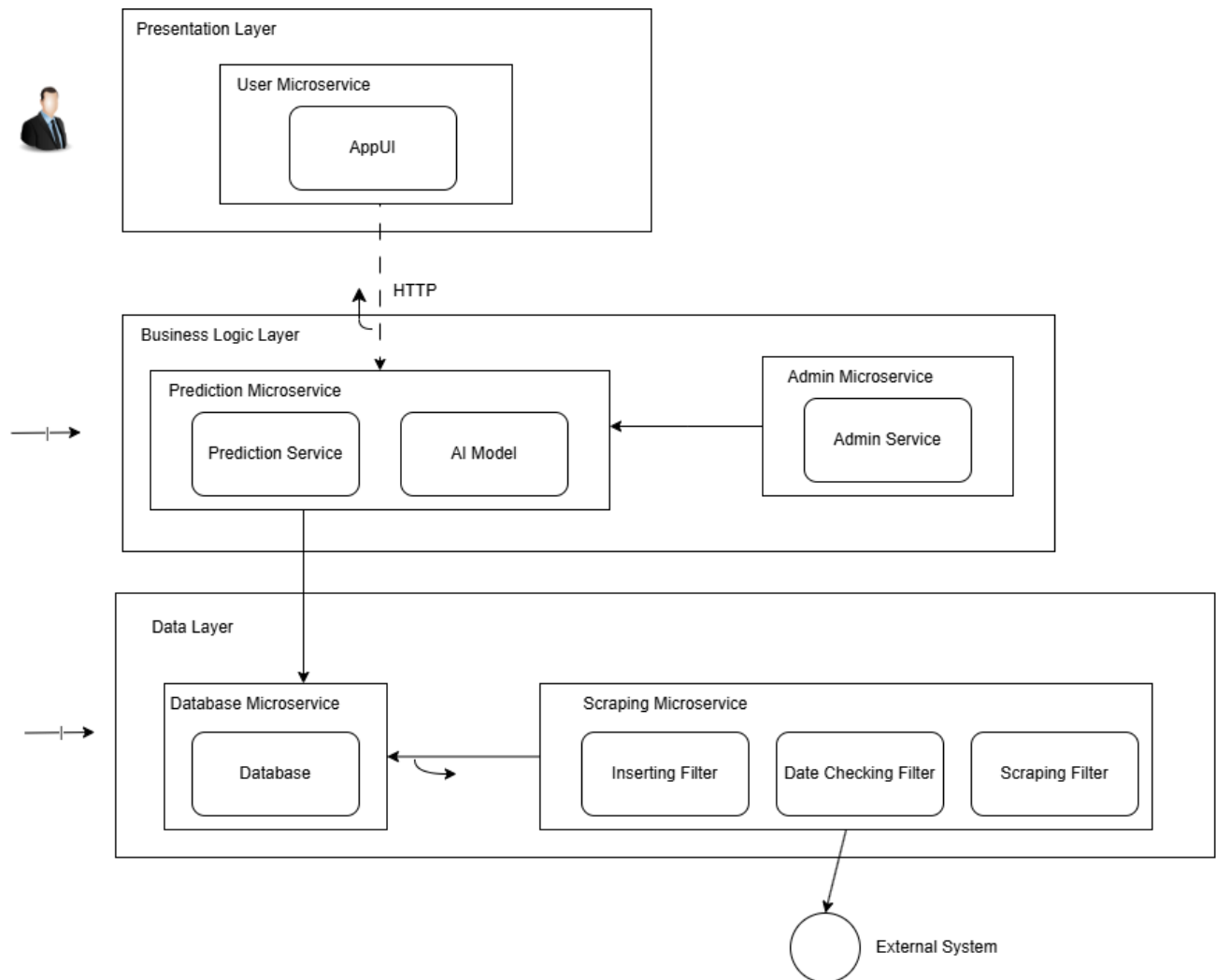


## Execution architecture

Now we can use the conceptual architecture diagram to do the execution architecture diagram by combining them. In this diagram we show the use of pipes and filters, layered architecture and microservices. Also we show the asynchronous communication between the client and the server, where we implement concurrency.



To analyze how our application will use the components in the execution architecture, we can use use-case map to show the predicting of the model. First the user initiates the call. Then the Prediction Service starts the prediction. After the AI Model gets the needed historical data and does the prediction, it gives the prediction to the Prediction Service that gives the result to the AppUI to display it to the user.

