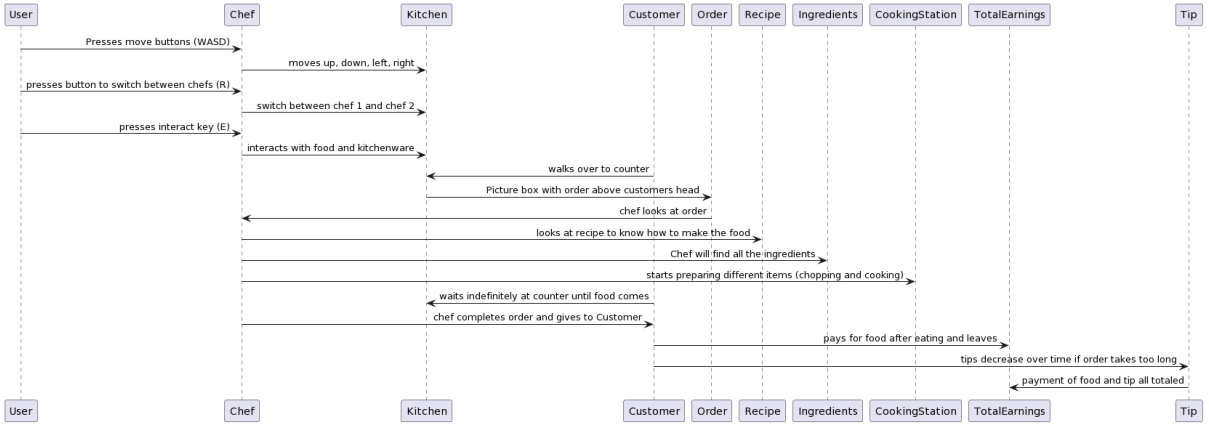Final version Sequence Diagram: