

Figure 2. User interface architecture

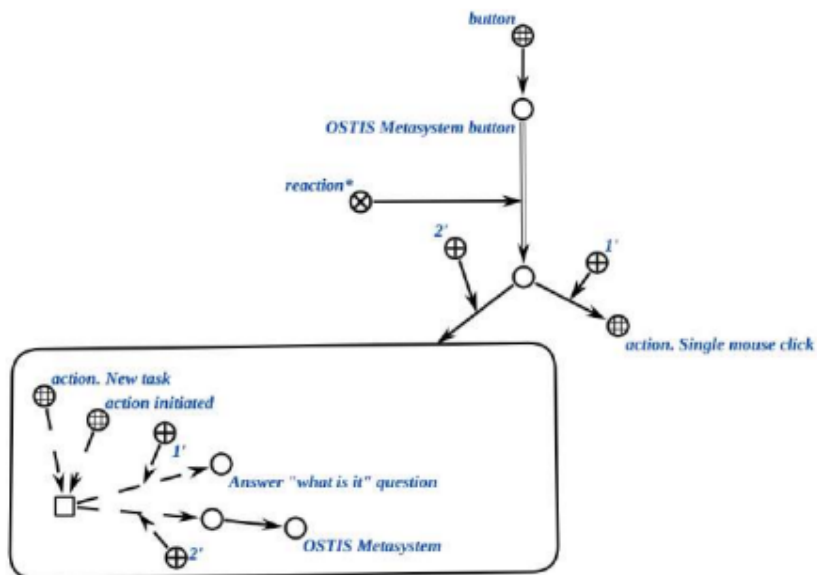


Figure 3. User action example

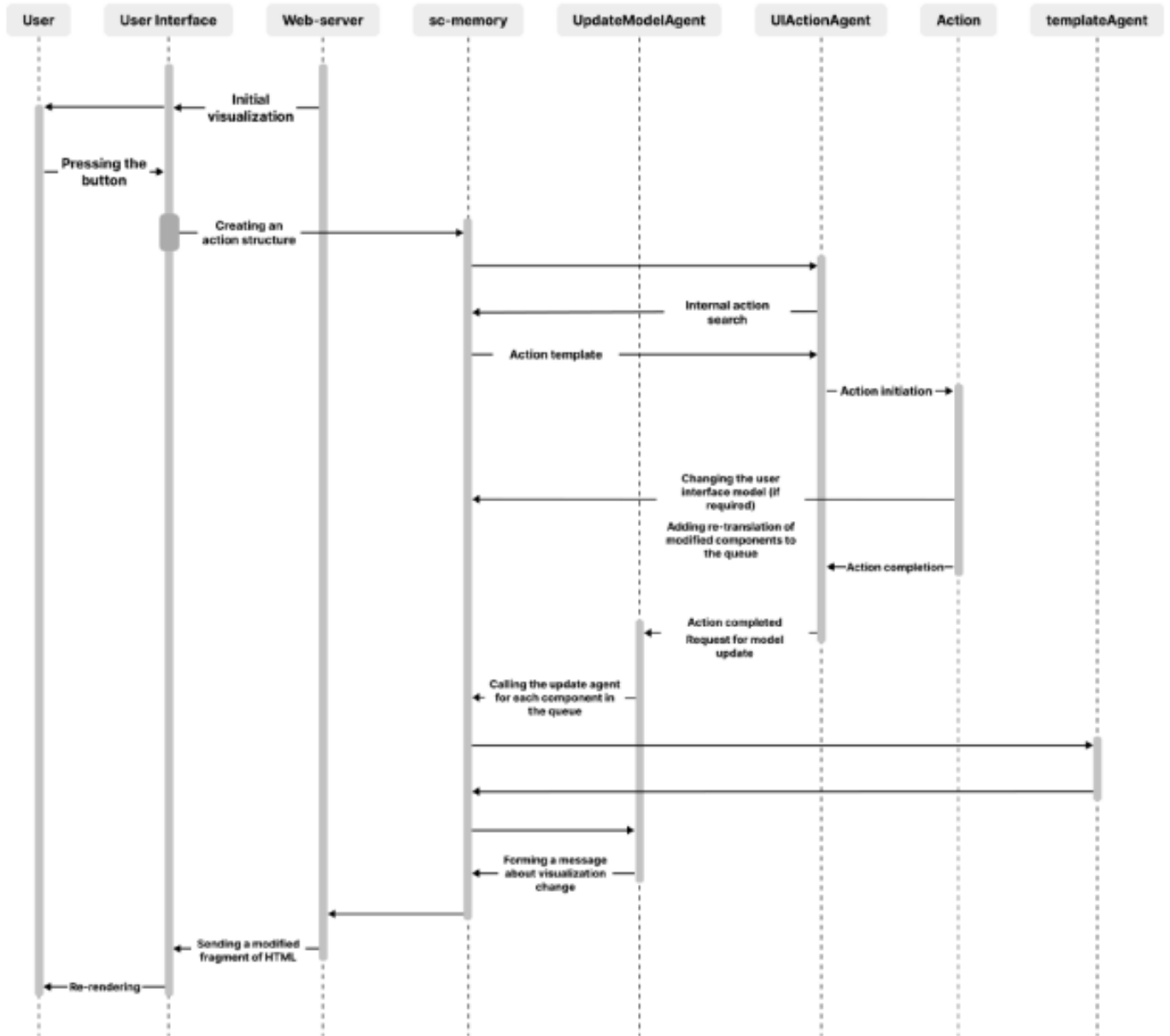


Figure 4. Sequence diagram for updating the user interface based on user interaction

interface component model as a reaction to one or another type of interaction.

The user interface implemented according to the specified architecture will be generated on the basis of its model in the knowledge base, adapted to the needs of users, and dynamically changed depending on the tasks to be solved.

#### IV. Conclusion

The paper analyzes the capabilities of computer systems and the level of development of tools for interaction with them (user interfaces). Based on the analysis, an approach to the design of adaptive user interfaces of

intelligent systems is proposed to provide new scenarios of user interaction with computer systems.

To apply this approach, the OSTIS Technology is used, which allows solving complex problems and whose components integrate with each other and have a synergistic effect. In turn, the application of ontological approach based on the semantic model of building adaptive user interfaces within the framework of the OSTIS Technology allows making intelligent systems practically applicable for a large number of classes of tasks. The paper refines and extends the previously proposed semantic model

of adaptive user interfaces of intelligent systems and presents their proposed architecture.

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### АДАПТИВНЫЕ ПОЛЬЗОВАТЕЛЬСКИЕ ИНТЕРФЕЙСЫ ИНТЕЛЛЕКТУАЛЬНЫХ СИСТЕМ: РАСКРЫТИЕ ПОТЕНЦИАЛА ВЗАИМОДЕЙСТВИЯ "ЧЕЛОВЕК-СИСТЕМА"

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В работе проведен анализ возможностей компьютерных систем и уровня развития инструментов взаимодействия с ними (пользовательских интерфейсов). На основе анализа предложен подход к проектированию адаптивных пользовательских интерфейсов интеллектуальных систем на основе Технологии OSTIS. Уточнена и расширена предложенная ранее семантическая модель таких интерфейсов, приведена предлагаемая архитектура таких систем. Проектируемые на основе предложенного подхода адаптивные пользовательские интерфейсы обеспечат новые сценарии взаимодействия пользователей с компьютерными системами.

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