Software development processes are constantly evolving and transforming rapidly with

rapid changes in technology. Recent innovations in Artificial Intelligence (AI) have led to

significant changes in software development practices. AI tools can greatly improve

traditional software development processes by giving developers the ability to build projects

smarter, faster and more effectively. These tools can be used for a variety of tasks such as

code generation, test automation, bug analysis, and performance improvements. ChatGPT,

which is an artificial intelligence-based language model and has made a deep impact in

almost every field, can help software developers write code faster and in a more natural

language. In this study, the contributions of ChatGPT to a software development project

were investigated. In the study, basic information about the use of ChatGPT in the software

development process is presented. Implementations were carried out on a software project

to evaluate some of ChatGPT's capabilities in the context of software development. For this

purpose, a software development process was designed based on the answers given by

ChatGPT. Various questions about software development processes were formulated and

the answers produced by the GPT were evaluated. The results obtained showed that

ChatGPT performed excellently in the software development process. Based on these

findings, it has been observed that AI-based models such as ChatGPT can be effectively

used as auxiliary tools in software development processes that accelerate traditional

workflows. In addition, AI-based tools can save time and effort while improving software

quality by automating testing processes.