

and human resource to maintain the server. However, after the application is on the market for a period of time, the demand for the application may grow and overwhelm the capacity of the static server, potentially causing jamming or crashing of the server. As such, the traditional static server architecture inevitably mismatches supply and demand, providing either too much or not enough computational resources.

SUMMARY

[0004] The embodiments herein disclose chatbot check-in platforms implemented with serverless computing architecture and application management methods. The platform analyzes a chatbot request of a user to find a particular service and presents options to the user for such service. The serverless architecture responds to demand dynamically. The serverless architecture is automatically scalable to match the change of demand, providing no mismatch between demand and supply of computational resources.

[0005] This disclosure uses a salon application that uses a chatbot check-in platform, as an example of an application management. It is noted that the computational architecture disclosed is not limited to a salon application. Other software applications such as finding a car, a house, a restaurant, a nail shop, a movie, a hotel, a service, or the like can all be similarly managed by the chatbot platform.

[0005a] In a first aspect, the present disclosure provides a chatbox check-in platform, comprising: a salon application associated with a messenger chatbot, wherein a user requests an appointment via the messenger chatbot for a salon service at a location; a location service in communication with the salon application, wherein the location service finds a salon nearby the location; a salon services API in communication with the salon application for finding the salon service and a time for the appointment for the salon service; and a database interface for storing the appointment for the salon service.

[0006] A chatbot check-in platform includes a salon application associated with a messenger chatbot, wherein a user requests via voice an appointment for a salon service. The platform includes a location service in communication with the salon application for finding a salon nearby

a user; a salon services API in communication with the salon application for finding a requested salon service and time for appointment for the salon; and a database interface responding to a request for making an appointment with the salon.

[0007] In a second aspect, the present disclosure provides a method of using a chatbot check-in platform, the method including instructions, when executed by a processor, that cause the processor to execute actions comprising: receiving, by a first processor, a request received via an associated messenger chatbot for booking an appointment for a service provided by a salon, wherein the first processor is a processor of a device, the device includes

machine readable memory accessible by the first processor; finding a salon and service, by the first processor in response to the request; providing, by the first processor, a suggested booking for the salon and service via an associated chatbot; and upon receiving, by the first processor, a confirmation from the user via the chatbot, booking the salon and service.

[0008] The present invention relates generally to a chatbot check-in platform implemented with serverless computing architecture. The platform dynamically responds to service requests without maintaining a fixed amount of computational resources. The present specification further discloses application management using the platform implemented with serverless computing architecture. The platform's serverless database architecture has the benefit of being scalable to match the change of demand. A database center that operates this platform can dynamically allocate computational resources to any client/application whenever there is a need. The computational resources operated by the database center can be efficiently allocated to meet the demands. An application developer who uses the services provided by the database center, does not have to worry about the large amount of hardware investments. There is no need for the application developer to provision a piece of hardware. There is no need for the application developer to increase or decrease the amount of physical hardware to meet the change of the demand. The platform, serverless database is event driven.

[0009] The foregoing has outlined rather broadly the features and technical advantages of the present invention in order that the detailed description of the invention that follows may be better understood. Additional features and advantages of the invention will be described hereinafter that form the subject of the claims of the invention. It should be appreciated by those skilled in the art that the concepts and specific embodiments disclosed may be readily utilized as a basis for modifying or designing other structures for carrying out the same purposes of the present invention. It should also be realized by those skilled in the art that such equivalent constructions do not depart from the spirit and scope of the invention as set forth in the appended claims. The novel features that are believed to be characteristic of the invention, both as to its organization and method of operation, together with further objects and advantages will be better understood from the following description when considered in connection with the accompanying figures. It is to be expressly understood, however, that each of the figures is provided for the purpose of