

# Unit 2: BlackBerry

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## **2.1 LEARNING OBJECTIVE**

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To gain the knowledge regarding the Blackberry mobile operating systems with its features, run on different devices.

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## **2.2 INTRODUCTION**

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Canadian company, BlackBerry Limited developed the BlackBerry mobile operating system for its BlackBerry smartphones. Initially this company was known as Research in Motion. They develop the former BlackBerry brand of smartphones. Also its products are used in different country in the different sectors like in the government agencies and car makers. They include BlackBerry Cylance's which is cyber security solution based on artificial intelligence. BlackBerry Cylance's is the software firm that developed the different computer software's as well as antivirus programs which are used to detect the malware and viruses. BlackBerry company developed the emergency communication system which are supports to the one way and two way emergency communication between the individual and the group of people.

BlackBerry company developed the BlackBerry 10 is the proprietary mobile operating system for BlackBerry line of smartphones. BlackBerry 10 mobile operating system is working on the basis of QNX. QNX is the Unix-like real-time operating system specially developed for the embedded systems. Blackberry 10 is the support for the application framework QT. Qt is the open source software used to design the graphical user interface as well as the used to develop the cross platform applications. All applications are supports to the different operating systems like Linux, windows, mac OS, android and embedded system. BlackBerry 10 is support to gesture and touch based interaction for the navigation and control which supports to control the device without touch the any physical button except the power button to switch on and switch off the device.

On 2015 BlackBerry announced there would be another two years support for BlackBerry 10 mobile OS and BlackBerry OS. BlackBerry does not support to BlackBerry OS after 2019.



Figure-80 BlackBerry 10 OS [1]

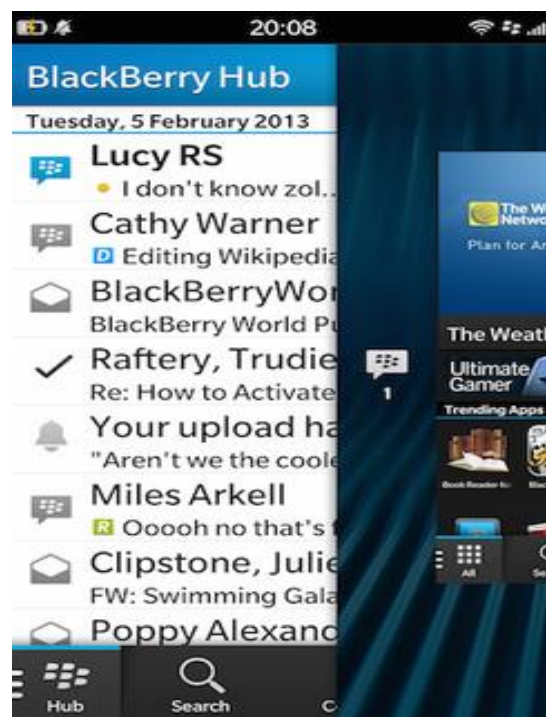


Figure-81 BlackBerry hub [2]

## 2.3 HISTORY

BlackBerry 10 mobile operating system was originally called BBX. After blocking of BBX they replaced the name by BlackBerry operating system. CEO Thorsten Heins announced a January 2013 to launch the BlackBerry 10 mobile

operating system which is run on to the first smartphone. Also BlackBerry designed the two devices known as Z10 and the Q10. BlackBerry Z10 is the touchscreen smartphone developed by the BlackBerry company which are previously known as the RIM. BlackBerry Z10 is the first smartphone which are presented at the BlackBerry 10 events held on January 2013.



**Figure-82 BlackBerry Z10 Smartphone [3]**

Q10 is another smartphone developed by the BlackBerry which is unveiled at the BlackBerry 10 event on January 2013.



**Figure-83 BlackBerry Q10 [3]**

BlackBerry developed BlackBerry playbook tablet which is receiving updates of the BlackBerry 10. BlackBerry Play Book is the mini tablet computer developed by the BlackBerry and made by the Quanta Computer which is the manufacturer company of notebook computers and the other hardware components.

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## 2.4 FEATURES

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### ➤ Controls

Users are using the touch screen to give the input because touch screen is the predominant method of input in the BlackBerry 10 OS. This OS supports the gesture control and keyboard shortcuts to control the smartphone. Also user can unlock the device by swiping the button from the top. Gesture control provides some additional features like same gesture is used to read the notification and enter in BlackBerry hub by moving finger in curve shape. Physical keyboard is used to open the specific application as per the users' requirements.

### ➤ Multitasking

BlackBerry 10 operating system supports multitasking, when from the application user returns to the home screen, the application is minimized called as active frame. An active frame is called as the miniaturized window because it keeps the applications in the running mode at the background. User can open the previous application by tapping the active frame or user can close the application by clicking on to the 'X' button. Active frame supports the like widget functionality, similar to the widgets on android operating system. Calendar application provides the facility to show the upcoming events and meetings. BlackBerry 10 operating system varies the limit of running application as per the different devices.

### ➤ BlackBerry Hub

BlackBerry provides facility of BlackBerry Hub which is used to organize the Gmail, SMS/MMS, notifications and phone calls. It shows the date wise sorted list of all notifications and messages in the continuous list.

### ➤ Miscellaneous Features

- Virtual keyboard is support to gesture control and predictive typing.
- BlackBerry support to the virtual assistance based on the voice control.
- BlackBerry link support to the data synchronization between the device and the computer which is useful to share the data, also it supports to the update and backup of the device.

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## **2.5 LET US SUM UP**

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BlackBerry operating system provides the better security as compared to the other mobile operating systems.

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## **2.6 CHECK YOUR PROGRESS**

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1. Give the technical specification of BlackBerry OS?
2. Give the brief history of Blackberry mobile operating system?
3. What is the BlackBerry hub?
4. Give the explanation of BlackBerry Z10 smartphone?
5. Which company developed the BlackBerry OS?

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## **2.7 CHECK YOUR PROGRESS:POSSIBLE ANSWERS**

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1. Refer 1.2
2. Refer 1.3
3. BlackBerry Hub is used to organize the Gmail, SMS/MMS, notifications and phone calls.
4. BlackBerry Z10 is the touchscreen smartphone developed by the BlackBerry Company previously known as the RIM. It is the first smartphone which are presented at the BlackBerry 10 events held on January 2013.
5. Canadian company, BlackBerry Limited developed the BlackBerry mobile operating system.

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## **2.8 ASSIGNMENTS**

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1. Explain the architecture of BlackBerry mobile operating system?
2. What is user interface BlackBerry mobile operating system?
3. What is text input in BlackBerry mobile operating system?
4. Explain Controls in BlackBerry mobile operating system?
5. What is the multitasking in BlackBerry operating system?

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## **2.9 ACTIVITIES**

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1. Make a case study on BlackBerry operating system.

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## **2.10 FURTHER READING AND REFERENCES**

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1. [https://en.wikipedia.org/wiki/BlackBerry\\_10](https://en.wikipedia.org/wiki/BlackBerry_10)
2. [https://en.wikipedia.org/wiki/BlackBerry\\_10](https://en.wikipedia.org/wiki/BlackBerry_10)
3. [https://en.wikipedia.org/wiki/BlackBerry\\_Z10](https://en.wikipedia.org/wiki/BlackBerry_Z10)