**PRACTICAL 1**

**REPORT ON OPEN SOURCE SOFTWARE**

**MOZILLA THUNDERBIRD**



**HISTROY**

**Mozilla Thunderbird** was originally launched as **Minotaur**, shortly after Phoenix (the original name for Mozilla Firefox); the project failed to gain momentum. With the success of the Mozilla Firefox, however, demand increased for a mail client to go with it, and the work on Minotaur was revived under the new name of Thunderbird, and migrated to the new toolkit developed by the Firefox team. Significant work on Thunderbird restarted with the announcement that from version 1.5 onwards, the main Mozilla suite would be designed around separate applications using this then-new toolkit. This contrasted with the previous all-in-one approach, hopefully leading to more efficient and maintainable code, as well as allowing users to mix and match the Mozilla applications with alternatives. The original Thunderbird logo was just a modified Firebird logo, with a simple shifting of hue value from red to blue. In 2004, together with the change of Firefox's visual identity by Jon Hicks, a more professional logo that is currently in use was introduced.



**IDEA**

Mozilla Thunderbird is a **free** and **open-source** cross-platform email client, personal information manager, news client, RSS and chat client developed by the Mozilla Foundation. The project strategy was originally modeled after that of the Mozilla Firefox web browser. Thunderbird is an open and absolutely free desktop-based email service. It enable its users to send or receive information from all around the world. It comprises of many advance features for carrying out bulk amount of emails with an ease. Email folders like Inbox, Sent, Trash, etc., are provided by this freeware for holding mails on a local machine. Apart from email item and its sub-folders, all other items like contacts, calendars, tasks, events, etc., are also provided by this program. In addition, Mozilla Thunderbird enable users to configure their existing email account of any other email providers like Gmail, Yahoo, Rediffmail, etc. This feature will help one to operate multiple accounts all together just from a single application i.e., Thunderbird.

**WHAT PROBLEM DOES IT SOLVE?**

**Thunderbird** email program was initiated by Mozilla Foundation while **Outlook** was developed by Microsoft Corporation. **Outlook** stable release was on 30th November 2016 with 45.5.1 version. **MS Outlook** provided its stable release on 22nd Sept 2015 with Outlook 2016 version. **Thunderbird** creates MSF and MBOX file as its default file format. **MS** **Outlook** creates personal storage table (PST) and offline storage table (OST) file. **EML is the email message file format,** which is created by dragging-and-dropping emails from **Thunderbird.** **MSG is the mail message file**, which is supported and generated by **Outlook emails**. **Features** like **filtering Junk, large linking of files, attachment reminder, reminder before closing email,** etc., are appended in **Thunderbird.** **Features** like **attachment linking in the cloud resource, searching on cloud, ribbon interface in views,** etc., are provided by **Outlook**. **Mozilla Thunderbird** renders its users with a feature to create maildir folder of an account, by just updating Thunderbird settings**. Outlook** does not provides an option to create maildir files on Windows. There no investment required to use **Mozilla Thunderbird** application on PC. It is completely a freeware and an open source for mailing purpose. The trial period of **Microsoft Outlook** application is available for free in order to learn the working of this email application. However, after completion of a specific time period, one will have to purchase the application from official and trusted site. **Thunderbird** provides multiple add-ons for different purposes like Import/Export, extract attachment, save file in different format, etc. **MS Outlook** provides scanpst.exe, Hotmail connector, etc., as its add-on utility, only if users are using purchased version of the software. When it comes to selection point of view then, it seems that **Microsoft Outlook** is a reliable application for **a middle or large enterprise users**. Well, when it comes for **small or home users then**, one should **use Thunderbird** for mailing purpose.

**LISCENSING MODEL**

Mozilla is the custodian of the Mozilla Public License ("MPL"), an open source/free software license. The current version of the license is MPL 2.0 (html | plain text). MPL1.1 or GPL-2.0-or-later or LGPL-2.1-or-later.

**POPULARITY**

Germany has long been our #1 country for usage, but in 4th quarter 2014, Japan exceeded US as the #2 country. On January 28, 2020, the Mozilla Foundation announced that the project would henceforth be operating from a new wholly owned subsidiary, MZLA Technologies Corporation, in order to explore offering products and services that were not previously possible and to collect revenue through partnerships and non-charitable donations.

**IMPACT**

Thunderbird provides security features such as [TLS/SSL](https://en.wikipedia.org/wiki/Transport_Layer_Security) connections to [IMAP](https://en.wikipedia.org/wiki/IMAP) and [SMTP](https://en.wikipedia.org/wiki/Simple_Mail_Transfer_Protocol) servers. It also offers inbuilt support for secure email with [digital signing](https://en.wikipedia.org/wiki/Digital_signature) and message [encryption](https://en.wikipedia.org/wiki/Encryption) through OpenPGP (using public and private [keys](https://en.wikipedia.org/wiki/Encryption_key)) or [S/MIME](https://en.wikipedia.org/wiki/S/MIME) (using [certificates](https://en.wikipedia.org/wiki/Public_key_certificate)). Any of these security features can take advantage of [smartcards](https://en.wikipedia.org/wiki/Smart_cards) with the installation of additional extensions. The [French military](https://en.wikipedia.org/wiki/French_military) uses Thunderbird and contributes to its security features, which are claimed to match the requirements for [NATO](https://en.wikipedia.org/wiki/NATO)'s closed messaging system. Thunderbird is also installed by default on Ubuntu desktop systems as well as many other Linux distributions.