

**DEVELOPMENT OF A CUSTOMIZED MOBILE APPLICATION FOR  
VIDEODOWNLOADING & EDITING USING ANDROIDSTUDIOS**

<sup>1</sup>**Mr. A Kalyan Kumar**, Assistant Professor, UG Student Department of Computer Science and Engineering, DVR & Dr.HSMIC College of Technology, Kanchikacherla, Andhra Pradesh, India

<sup>2</sup>**K.Jyoshna Priya**, Assistant Professor, UG Student Department of Computer Science and Engineering, DVR & Dr.HSMIC College of Technology, Kanchikacherla, Andhra Pradesh, India

<sup>3</sup>**Siddhartha Vasudev. K**, UG Student Department of Computer Science and Engineering, DVR & Dr.HSMIC College of Technology, Kanchikacherla, Andhra Pradesh, India

<sup>4</sup>**Bhavani. S**, UG Student Department of Computer Science and Engineering, DVR & Dr.HSMIC College of Technology, Kanchikacherla, Andhra Pradesh, India

<sup>5</sup>**Yogitha .M**, UG Student Department of Computer Science and Engineering, DVR & Dr.HSMIC College of Technology, Kanchikacherla, Andhra Pradesh, India

<sup>6</sup>**Hema Sai. S**, UG Student Department of Computer Science and Engineering, DVR & Dr.HSMIC College of Technology, Kanchikacherla, Andhra Pradesh, India

**Abstract**

An editor must use several separate programmes when making a video, which takes time and causes latency when launching the apps. We developed an all-in-one video editing programme as a solution to this issue. This app includes tools for downloading videos from several websites, including YouTube, Instagram, and WhatsApp. It also includes a simple video editor and photo editor, making it simple to complete multiple tasks with just one programme. The time and memory requirements for editing tasks are decreased.

We utilised the "Java and Android studio app" to build this app. They are used for downloading, and for editing, we used online editing app development packages.

**1.Introduction**

BitTorrent is a protocol created to share files more quickly than other file sharing methods. It uses URLs to identify information and was built to work seamlessly with the web. Its advantage over typical client-server download is that when many copies of the same file are downloaded simultaneously, the downloaders upload to one another instead, allowing the file source to support a large number of users with only a little increase in load. In a classic client-server setup, if multiple users attempt to download the same file from the same server at the same time, the server becomes overloaded and the available bandwidth is reduced. As a result, anyone attempting to download that file must deal with extremely poor download rates or risk being rejected altogether. Also, the server's owner might have to pay exorbitant bandwidth fees. The load can be distributed via BitTorrent. The initial application that took advantage of this was known as BitTorrent, but the name is also used to refer to the protocol itself. Hence, if you download a BitTorrent client, the client software has the ability to download and serve both of those files as well as others. You are placed on a peer-to-peer network where you participate in the file distribution network as a user of the torrent software.

**2.Related work :**

1. The BitTorrent protocol is thoroughly analysed in the publication "The BitTorrent Protocol: Design and Performance Assessment" by Arnaud Legout, Guillaume Urvoy-Keller, and Pietro Michiardi. This analysis covers the protocol's design, performance, and restrictions.

The paper begins by explaining the BitTorrent protocol and



**Figure 1 : Torrent image**

some of its salient characteristics, including the utilisation of swarms for file distribution and the tit-for-tat algorithm for sharing incentives. The design of the BitTorrent protocol is then thoroughly discussed by the authors, covering the function of tracker servers, the utilisation of peer connections, and the control over component selection. The paper then goes on to examine the performance of the BitTorrent protocol in various scenarios, such as different swarm sizes, download rates, and peer churn rates. The authors use simulations and real-world experiments to evaluate the performance of the protocol and to identify potential limitations and areas for improvement.

2. The culture and background of modding in gaming are examined in the essay "Modding Culture and the Art of Game Changes" by David Parisi. The article offers a thorough examination of the effects that modding has had on the video game business as well as the ways that mods have increased user engagement.

The opening section of the essay explores the history of modding in video games as well as the early modding communities that appeared in the 1990s. According to the author, modding developed as a means for gamers to use their creativity and preserve their favourite games. The following section of the essay explores the various kinds of mods that have been created over time, such as complete conversions, gameplay mods, and cosmetic mods. The author makes the case that users can now customise their gaming experiences and try out new gameplay concepts thanks to mods.

### **3. Proposed Method:**

#### **3.1 How Torrent Works**

**Torrent:** A file transferred over a decentralised, peer-to-peer network is known as a torrent. Users can share files via peer-to-peer (P2P) file sharing without first uploading them to a server. The phrase can also be used to describe the information or file name extension that informs trackers—programs that manage the movement of torrents—where to obtain torrent files.

**Working of Torrent:** A centralised server is not required for torrenting to store files. Instead, to speed up the file-sharing process, pieces of data from certain huge files are saved on participating computers (peers) in a network (swarm). A torrent client, a different software that reads all the information in the torrent file and links users to exchange data, is used to transport the files from uploaders (seeders) to downloaders (leechers) using a P2P communication protocol like BitTorrent.

The metadata in a torrent file (.torrent) lets users know which machines are involved in the file-sharing process. Also, it could offer some information on the files and directories that a user is downloading.

The torrent client establishes a connection with a tracker that contains the IP addresses of the swarm's devices. To guarantee that all peers are connected, the tracker passes the IP addresses to all torrent clients. The download is started by the torrent client. It also starts to upload the file for the benefit of other users as soon as it has enough data.

#### **3.2 Using Torrents:**

##### **Step 1: Choose and Download a Torrent Client**

You must pick and install a torrent client before you can share or download files. Select wisely since some may include adware that might harm your computer or other device. To avoid downloading viruses from third-party websites, it is best to download straight from the client's website. Although there are clients available for free download, using a premium client is recommended if you want security features.

##### **Step 2: Install a Tracker Site**

Once a torrent client has been installed, you must also download a tracker website, which offers a list of torrent files. They do not host material on their servers; they just act as a repository for torrent files.

The two different kinds of tracker websites. One is a tracker website that is open to all users. The other is a private tracker website that includes specialised torrent websites hosting particular file niches. Private tracker site registration is sometimes invitation-only and exclusive. Moreover, it mandates that users seed torrents after each download.

### **Step3:SearchContentforDownload**

The content you want to download can then be found by searching. Many files are frequently returned in search results; select the ones with the most seeders to speed up your download. Make sure you can execute the file before you download it.

### **Step4:DownloadtheContent**

You can begin downloading the material after you are certain that the file is appropriate for the installed programmes on your computer. Although you may download numerous files at once, prioritising your downloads is a smart idea.

**Torrent Linked With Pirated Websites:** Since it is widely used to transfer things that are copyright protected, such as movies, games, music, and software, torrenting is usually linked to piracy.

However torrenting also serves many useful purposes, such as dispersing the hosting strain among users to lighten the demand on centralised servers.

### **3.3 PiratedWebsite:**

Piracy is the illegal duplicate of copyrighted material that is afterwards sold in the "grey" market for much less money. Because technology is so widely available, piracy has gotten worse over time. For instance, CD writers may be purchased off the shelf for relatively little money, which makes music piracy a straightforward process.

Piracy may be carried out in a variety of methods, including through video, cable, and DVD/CD piracy. Video piracy occurs when a movie is made onto a videocassette without the producer, who has the legal right to do so, giving their consent. Film makers frequently sell the rights to the video to a third party, who then creates video cassettes to sell or lend (typically six weeks or more after the film's theatrical debut).



**Figure 2 : pirated website**

### **3.4 Mod Applications:**

Modified versions of the mobile apps that came with them are known as mod APKs. Modified APKs are created to provide consumers access to updated or new features that aren't included in the app's initial release.

Mobile apps and middleware are distributed and installed using the package file format known as APK for the Android operating system.

It's usual for games on smartphones to charge a fee so you can access particular features. This is the stage where modifications are used. In the altered version, all of the game's premium features will be free to use. For the same reason, mod APKs have been more and more popular lately.

The Google Play Store is where you can find the bulk of customised Android apps. Hence it's never a smart idea to download programmes from places other than the Google Play Store. You could have received a warning from your mobile device about the risks of installing an app from an unknown source. This is as a result of the security risks that these apps provide.

These mod APKs were targeted in 2012 and 2013 and included popular games like Temple Run 2 and Candy Crush Saga. These bespoke software infected a significant number of devices by posing as gaming cheats as bait. Moreover, by aggressively pushing advertising, these programmes collected personal data from all of the infected devices.

### **3.5 MOD APK Harm Your Device – Everything You Need To Know**



**Figure 3 :Apps**

### **GettingAPK's:**

The Google Play Store is where you can find the bulk of customised Android apps. Hence it's never a smart idea to download programmes from places other than the Google Play Store. You could have received a warning from your mobile device about the risks of installing an app from an unknown source. This is as a result of the security risks that these apps provide.

These mod APKs were targeted in 2012 and 2013 and included popular games like Temple Run 2 and Candy Crush Saga. These bespoke software infected a significant number of devices by posing as gaming cheats as bait. Moreover, by aggressively pushing advertising, these programmes collected personal data from all of the infected devices.

- Once the APK file has been installed, you are ready to utilise it.  
You only need to follow these easy instructions to install the APK files. We had finally installed the APK.

### **Make sure to read the guide:**

Now, be sure to go by these guidelines if you wish to install the MOD APKs securely.

You may install any MOD APK with the aid of these tips without taking any kind of danger.

- Make sure you receive a strong warning not to install such files when attempting to install MOD APKs on your Android device.

Verify whether Google Play Protect is warning you or not.

- If at all feasible, protect your mobile device with antivirus software.

It will always alert you and beg you not to download hazardous files whenever you try to install them.

- Be careful not to install such files if the APK you're attempting to install asks you to confirm too many permissions because doing so might result in the theft of your personal information and financial ruin. It is advised that you only obtain such files from dependable and reputable sites if you still want to download and install the MOD APK.

Be sure not to download or install anything from any source since it can include malware and viruses. If you're not a computer whiz and you don't know anything about rooting, you shouldn't try to root your smartphone only to install these apps since it might damage your data and ruin your privacy.

- There are several APK SCANNERS from third parties.

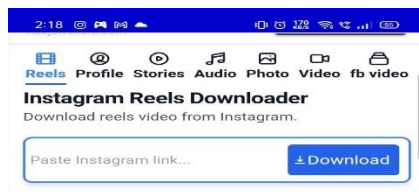
On your computer or mobile device, be sure you download and install it.

Be careful to scan the APK using one of these scanners before downloading it.

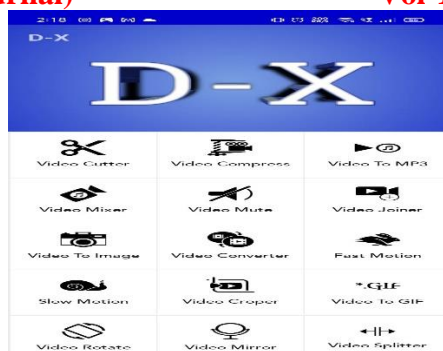
You must follow these instructions in order to download and install the MOD APK files.

### **4. Results and discussion :**

By considering all this, we have created a safe app that contains both download and editing features  
Here are app screen shorts



**Figure 4 : Instagram downloader**



**Figure 5: Editing**



**Figure 6 : WhatsApp saver**

## 5. Conclusion

To sum up, torrents are a well-liked technique of file sharing that have completely changed how people exchange massive files online. They are connected to piracy websites and mod software even though they have numerous lawful uses. Although it might be dangerous to devices, using modapk, which is a modified version of an original programme, is growing in popularity. These mod software packages frequently include viruses or malware that can harm devices and compromise private data. Also, it is unlawful and may result in legal repercussions to download copyrighted content through torrents or pirated websites. To minimise these hazards, it is crucial to use caution while using torrents and to only download from authority sources. Notwithstanding the difficulties that torrents have had as a result of their links to viruses and piracy, they are still an important tool for legal file sharing. The usage of torrents is probably going to change as technology develops, therefore it's important to keep aware and take the necessary safeguards to utilise them securely and ethically.

## 6. References

- Anthony Bellissimo, Brian N. Levine and Prashant Shenoy. Exploring the Use of BitTorrent as the Basis for a Large Trace Repository.
- John Borland. BitTorrent file-swapping networks face crisis. 20.12.2004. [http://news.com.com/BitTorrent+file-swapping+networks+face+crisis/2100-1025\\_3-5498326.html?tag=nl](http://news.com.com/BitTorrent+file-swapping+networks+face+crisis/2100-1025_3-5498326.html?tag=nl)
- Clue for Windows, version 6.
- Bram Cohen. Incentives Build Robustness in BitTorrent. May 22, 2003
- Bram Cohen. BitTorrent version notes.
- Bram Cohen. BitTorrent Goes Trackerless: Publishing with BitTorrent gets easier!
- K. Kant, R. Iyer and V. Tewari. A framework for classifying peer-to-peer technologies. Cluster Computing and Grid 2nd IEEE. 2002. <http://doi.ieeecomputersociety.org/10.1109/CCGRID.2002.1017163>
- Andrew Kantor. Despite reports, Grokster decision is a win for file sharing.
- David Karger, Eric Lehman, Tom Leighton, Matthew Levine, Daniel Lewin and Rina Panigrahy. Consistent Hashing and Random Trees: Distributed Caching Protocols for Relieving Hot Spots on the World Wide Web.
- Legal Torrents.com. <http://www.legaltorrents.com/>
- Petar Maymounkov and David Mazières. Kademlia: A Peer-to-peer Information System Based on the XOR Metric.

ChrisMeredith.Thestorytit-for-tat.1998.

IqbalMohomed.UnderstandingBitTorrent.

NextGenTel.<http://www.nextgentel.no>

Opera. Press release: Faster, more efficient downloads in Opera technical previewwithBitTorrent.2005

J.A.Pouwelse,P.Garbacki,D.H.J.EpemaandH.J.Sips.AMeasurementStudyoftheBitTorrentPeer-to-PeerFile-SharingSystem. DelftUniversityofTechnology.