

## SOFTWARE PIRACY PREVENTION

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**Abstract** - Software piracy continues to be a major economic concern for organizations. Given the high cost of producing software, development of technology for prevention of software piracy is important for the software industry. After identifying the fundamental weakness of existing piracy prevention, we propose a Software Activation Algorithm using image splitting technique; in which image is sliced into two parts, one part will be with the client and the other part will be with the trusted server. When client wants to activate the software; both parts of the image are made available to the server. After joining both parts, it will be matched with the original image. Also the hardware details of the user machine will be extracted during activation.

**Key Words** : Piracy, Activation, Third party, Hardware, image,

### 1. INTRODUCTION

#### 1.1 Problem Definition

To develop a solution for preventing software piracy using image, unique serial key/ product key and by extracting user machine details.

#### 1.2 Need of the Project

Now a days the percentage of use of software without a valid license is increased Because when you buy software, you do not own it, you only have the rights to use the program by having a licence. This is called "Software Piracy".

#### 1.3 Objective

We prevent the software piracy of Local Systems & prevents illegal use of the Software using many techniques.

1. Securing the software from being pirated using image.
2. Getting the hardware details.

#### 1.4 Limitations

The User should have to confirm us in technical problems before installation. Our Proposed Application would Applicable for Only one software.

### 1.5 Literature Survey

- [1] Software Piracy Prevention Using Image Splitting. Shweta Kamble EXTC, Mumbai University, Versova , Mumbai , India.
- [2] Piracy Detection and Prevention using SIFT based on Earth Mover's Distance (EMD):  
Srinivas Baggam: CSE Department, MVGR College of Engineering, Vizianagaram, AP, India.  
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Prof. P. Suresh Varma: Principal and Professor of CS, Adikavi nannaya university, Rajahmundry, A.P, India.

### 2. Implementation Details

- ▶ Image is sliced into two parts using Image Splitting Algorithm.
- ▶ One part will be with the client.
- ▶ The other part will be with the trusted Servers Database.
- ▶ Both parts of the image are made available to the server using Merge Algorithm.
- ▶ Hardware details of the user machine will be extracted.
- ▶ Joined and matched with the original image using Image Matching Algorithm.
- ▶ During activation the user enters CD-key, using CD-key server points to the specific user le stored in server database. Server matches HP1 with HP2. Insert or check machine hardware details.
- ▶ If HP1 matches with HP2, match extracted hardware details with actual hardware details of the machine, if match found allow further processing of Registration.

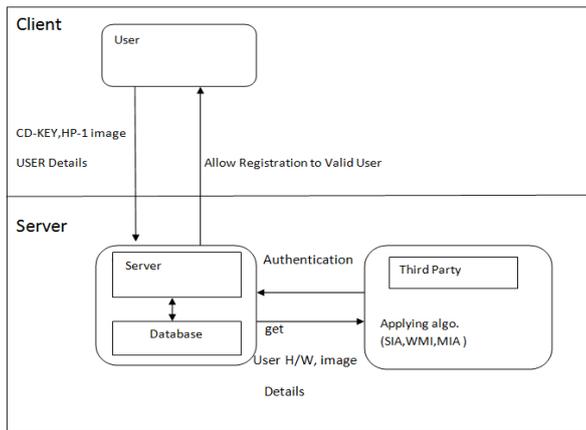


Fig -1: Architecture diagram

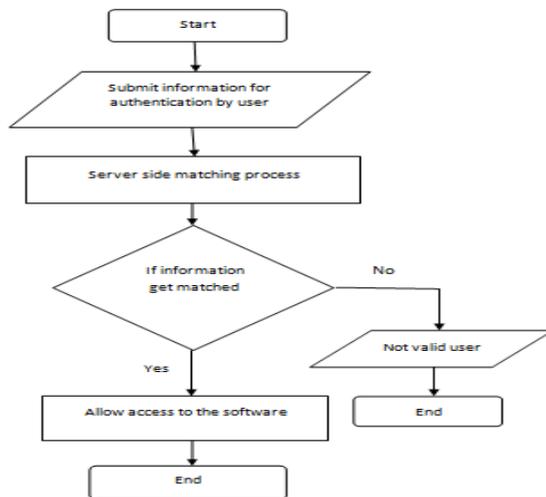


Fig -1: Flowchart

### 3. CONCLUSIONS

As, defined in objectives in Proposed System we provide protection using three techniques using product key, using the image, getting the hardware details. Our approach has more than one piracy prevention techniques like key generation, computer identification and image splitting (innovation). Software is identified using an image rather than a key, and the image is split for security. As split image has no extension retrieving it is impossible. Also generating an exact replica of the image is not possible. The original image always stays with the server. In Hardware Details we provide security by fetching user machine Hardware Details.

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### REFERENCES

- [1] Software Piracy Prevention Using Image Splitting. Shweta Kamble EXTTC, Mumbai University, Versova , Mumbai , India.
- [2] Piracy Detection and Prevention using SIFT based on Earth Mover’s Distance (EMD): Srinivas Baggam: CSE Department, MVGR College of Engineering, Vizianagaram, AP, India. Prof. Koduganti Venkata Rao : Professor and HOD CSE, Vignan IIT, Vishakhapatnam, AP, India. Prof. P. Suresh Varma: Principal and Professor of CS, Adikavi nannaya university, Rajahmundry, A.P, India.