**DECLARATION**

We hereby declare that this submission is our own work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

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## **CERTIFICATE**

This is to certify that the Project Report entitled Design and Development of Video Watermarking which is submitted by Himanshu Soni (1301410040), Ajeet Singh Sisodiya (1301410011), Ved Prakash (1301410102), Gajanand Bharti (1301410035) and Sushil Gupta (1301410093) is a record of the candidates own work carried out by them under my supervision. The matter embodied in this work is original and has not been submitted for the award of any other work or degree.

Er. L. S. Maurya Mr, Mukesh Azad **HOD (CSE/IT) Supervisor**

ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B. Tech. Final Year. We owe special debt of gratitude to Assistant Professor Mr, Mukesh Azad, Department of Computer Science and Engineering, S.R.M.S.C.E.T, Bareilly for his constant support and guidance throughout the course of our work. His sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his cognizant efforts that our endeavors have seen light of the day.

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ABSTRACT

***Problem statement:*** *Video watermarking is well known as the process of embedding copyright information in video bit streams. It had been proposed in recent years to solve the problem of illegal manipulation and distribution of digital video.*

***Approach:*** *After many research and study, an effective, robust and imperceptible video watermarking algorithm was proposed. And algorithm is based on a cascade of two powerful mathematical transforms; Discrete Wavelets Transform (DWT) and Singular Value Decomposition (SVD). Two different transform domain techniques showed high level of complementary and different levels of robustness against the same attack will be achieved through their combination.*

***Results:*** *The proposed algorithm was tested against imperceptibility and robustness and excellent results were obtained.*

***Conclusion:*** *Experimental results demonstrate the robustness achieved by combining the two transforms.*

**LIST OF TABLES**

**Table No. Description Page No.**

Table 11.1 Future enhancements 32

**LIST OF FIGURES**

**Fig No. Description Page No.**

Fig 1.1 Video Watermarking Process 1

Fig 2.1 Travelers on a Mountain 3

Fig 2.2 Fan’s signature “范宽” 3

Fig 3.1 Statistics on search engine usage in U.S. 6

Fig 3.2 Android Architecture 7

Fig 6.1 Agile Model 14

Fig 7.1 Flow Chart 16

Fig 8.1 Download Page 19

Fig 8.2 Home Screen 20

Fig 8.3 Media Page 21

Fig 8.3.2 Video Gallery 22

Fig 8.4 Customization Screen 23

Fig 8.5 Confirmation Screen 24

Fig 8.5.1 Status Dialog Screen 25

Fig 8.6 My Creation Screen 26

Fig 8.7 Share Screen 27

Fig 8.8 Rate Screen 28

**LIST OF ABBREVIATIONS**

ADT Android Development Tools

[GPL General Public License](https://en.wikipedia.org/wiki/GNU_General_Public_License)

JDK Java Development Kit

JRE Java Runtime Environment

[SDK](https://en.wikipedia.org/wiki/Software_development_kit) Software Development Kit