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e-Farming Portal for Farmers Using Java

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ABSTRACT

E-Farming is a open discussion portal developed using Java programming language with Oracle as the system database. This project is useful for farmers and agricultural students to obtain information regarding various crops, the fertilizers usage for these crops, the soil condition in which these crops yield more, and the suitable climatic and environmental condition for these crops. The portal provides soil analysis for various regions and suggestions based on the soil condition and climate. It explores questions such as: "which fertilizers to use where and in what quantity", "which crop, vegetables, or herb should be grown where and in which season", etc. Additionally, this project helps farmers and agricultural students in making decisions on the current market and best prices of crops and herbs. Information regarding major crop markets and the prevalent best price for the crops are published on a regular basis.

Keywords: E-Farming, Fertilizer, NGO

I. INTRODUCTION

This is a web based project which is useful for farmers and agricultural farmers. This is an open discussion portal providing solutions to small farmers and agricultural farmers.

This project is an open discussion portal which is developed by using Java programming language with Oracle as the system database. This project is very useful for farmers as well as agricultural farmers to obtain their information regarding various crops, the fertilizers usage for these crops, the soil condition in which these crops yield more, the suitable climatic and environmental condition for these crops.

This project provides solutions to the farmers regarding agriculture. It also helps NGO's to get valuable information with respect to crops like type of soil, fertilizers used and so on.

This software provides soil analysis for different regions and provide suggestions based on the soil condition and climatic condition. It supplies

information such as what type of fertilizers to be used, where it can be used and in what quantity. Which type of crops, vegetables, or herbs should be grown in which area and in which season.

II. PROPOSED SYSTEM

The proposed system of this project is built in view of database integration approach, it tries to automate the entire system process in a very effective, simple and most reliable way.

- Reduces complexity in managing the data.
- Reports will be generated dynamically on a regular periodic basis.
- Economical, users freiendly
- Work effectively
- Category wise classifications are done for the information regarding the farming techniques, agricultural products, soil used for cultivation, fertilizers required and climatic conditions.

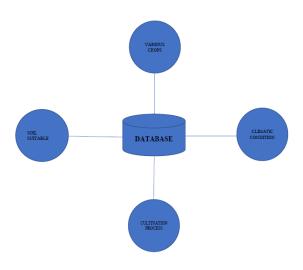
III. EXISTING SYSTEM

The existing system is very traditional as data management is very complex. It is very difficult to provide sufficient information regarding agricultural details like soil, products, climate, fertilizers and so on. [5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35]

The drawbacks of existing system are:

- No category wise classification of agricultural products.
- Insecurity

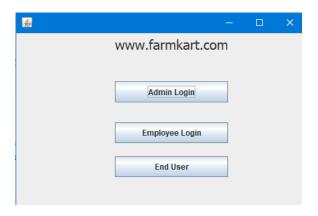
IV. SYSTEM ARCHITECTURE

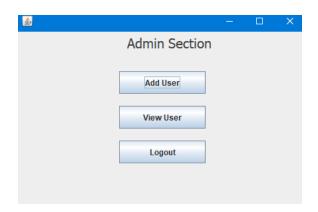


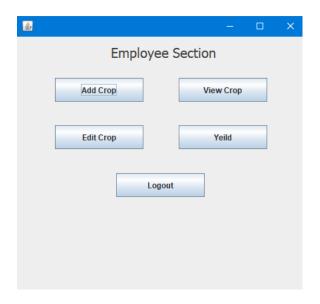
- 1. ADMIN MODULE: This part of the system is accessed by the authorized person, where he can add and view the employee details.
- 2. EMPLOYEE MODULE: This is where employee works of the system. Employee can add the crop details , view them and can also edit the details entered in the database.

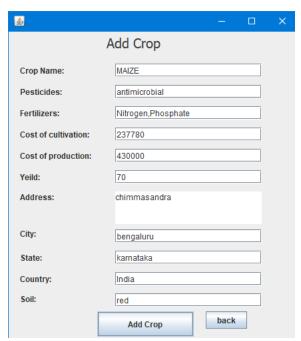
- 3. USER MODULE: Where the end user can view the crop details. Can also view the yield that is the raise and fall of crops in the market.
- 4. CROP DETAILS: All the details of the crops are stored in database. This provides details such as soil and fertilizers used for farming, climatic condition suitable for the growth of crops, farming products and so on.

V. IMPLEMENTATION









VI. CONCLUSION

- 1. The proposed system of this java project provides an effective online platform where farmers and agricultural farmers can get information regarding various agricultural matter.
- 2. As this system is being based on object- oriented designs, new features and many new modules can be added into this system in future.

- 3. This system project keeps on changing based on users requirement as they are being used, and in this regard, the project is very flexible.
- 4. The data can be saved in a database which can hold the data permanently.

VI. REFERENCES

- [1]. https://github.com/Spidy2 /EFarming_system
- [2]. https://www.researchgate.net/publication/274 480387_E-Farming_using_Cloud_ Computing
- [3]. https://www.farmingindia.in/
- [4]. https://www.agrifarming.in/project-reports
- [5]. S Mohankumar, Analysis of different wavelets for brain image classification using support vector machine, International Journal of Advances in Signal and Image Sciences 2 (1), 1-4, 2016
- [6]. Naga Raju Hari Manikyam and S MohankumarMethods And Techniques To Deal With Big Data Analytics And Challenges In Cloud Computing Environment, International Journal of Civil Engineering & Technology 8 (4), 2017
- [7]. S MohanKumar and Balakrishnan.G, Multi Resolution Analysis for Mass Classification in Ddigital Mammogram using Stochastic Neighbor Embedding, ICCSP,2013,101-105.
- [8]. Dr.S. Mohan Kumar and Dr G. Balakrishnan, Wavelet And Symmetric Stochastic Neighbor Embedding Based Computer Aided Analysis For Breast Cancer, Indian Journal of Science and Technology ISSN 0974-6846 and 0974-5645, Volume 9, Issue 47, 12-16
- [9]. Dr. Mohan Kumar S & Dr. Balakrishnan, Classification Of Breast Mass Classification – CAD System And Performance Evaluation Using SSNE, IJISET – International Journal of Innovative Science, Engineering & Technology, Vol. 2, Issue 9, 417-425, ISSN 2348 – 7968

- [10]. Dr. Mohan Kumar S, Dr. Balakrishnan, Classification Of Breast Mass Classification – CAD System With Performance Evaluation, International Journal of Engineering And Computer Science, Volume 4, Issue 09, 14187-14193, ISSN 2319-7242, September, 2015
- [11]. Dr. Mohan Kumar S, Dr. Balakrishnan, Classification Of Breast Microcalcification-CAD System And Performance Evaluation Using SSNE, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 9, 824-830, ISSN: 2277 128X, Sep- 2015
- [12]. Revathi Y, Dr S Mohan Kumar, Efficient Implementation Using RM Method For Detecting Sensitive Data Leakage In Public Network International Journal of Modern Trends in Engineering and Research, Volume 3, Issue 04, Page Numbers: 515-518, ISSN (Online):2349–9745 ISSN (Print):2393-8161, April, 2016
- [13]. Revathi Y , Dr S Mohan Kumar, Review On Importance And Advancement In Detecting Sensitive Data Leakage In Public Network, International Journal Of Engineering Research And General Science, Volume 4, Issue 02, Page Numbers:263-265, ISSN:2091-2730, April, 2016
- [14]. Revathi Y, Dr S Mohan Kumar, A Survey On Detecting The Leakage Of Sensitive Data In Public Network International Journal of Emerging Technology and Advanced Engineering, Volume 6, Issue 03, Page Numbers:234-236, January, 2016
- [15]. Dr. S. Mohan Kumar & Anisha Rebinth,
 Automated detection of Retinal Defects using
 image mining, A review, European Journal of
 Biomedical and Pharmatical Sciences,
 European ISSN: 2349 8870, Volume 5, Issue
 : 01 year: 2018, pp No.: 189 194
- [16]. Dr. S. Mohan Kumar& Darpan Majumder, Healthcare Solution based on Machine

- Learning Applications in IOT and Edge Computing, International Journal of Pure and Applied Mathematics, ISSN: 1311-8080 (printed version) ISSN: 1314-3395 (on-line version) Jul 2018 issue.
- [17]. Dr. S. Mohan Kumar, Ashika.A, A Survey on Big Data Analysis, Approaches and its Applications in the real World, Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, May 2018, Volume 5, Issue 5, pp. no.: 93-100
- [18]. Mohan Kumar & Dr. Balakrishnan, Statistical Features Based Classification of Micro calcification in Digital Mammogram Stocastic Neighbour using Embedding, International **Iournal** of Advanced Information Science and Technology, 2012, ISSN:2319-2682 Volume 07, Issue 07, November 2012, Page Numbers: 20-26
- [19]. S Mohan Kumar & Dr. Balakrishnan ,Breast Cancer Diagnostic system based on Discrete Wavelet Transformation and stochastic neighbour Embedding, European Journal of Scientific Research, 2012, ISSN:1450-216X ,Volume 87, Issue 03 , October 2012, Page Numbers: 301-310
- [20]. S Mohan Kumar & Dr. Balakrishnan, Classification of Microclacification in digital mammogram using SNE and KNN classifier, International Journal of Computer Applications - Conference Proceedings published in IJCA, 2013 ISBN: 973-93-80872-00-6, ICETT proceedings with IJCA on January 03,2013, Page Numbers: 05-09
- [21]. S Mohan Kumar & Dr. Balakrishnan, Mutiresolution analysis for mass classification in Digital Mammogram using SNE, IEEE international Conference- ICCSP-13 organized by Athiparasakthi Engineering College, Chennai , 2013, ISBN:978-1-4673-4864-5, Page Numbers: 2041-2045.

- [22]. S Mohan Kumar & Dr. Balakrishnan, Categorization of Benign And Malignant Digital Mammograms Using Mass Classification SNE and DWT, Karpagam Journal of Computer Science, 2013, ISSN No: 0973-2926, Volume-07, Issue-04, June-July-2013, Numbers: 237-243.
- [23]. S Mohan Kumar & Dr. Balakrishnan, Classification of Micro Calcification And Categorization Of Breast Abnormalities -Malignant Benign and In Digital Mammograms Using **SNE** And DWT, Karpagam Journal of Computer Science 2013, ISSN No: 0973-2926, Volume-07, Issue-05, July-Aug, 2013. Page Numbers: 253 to 259
- [24]. S Mohan Kumar & Dr. Balakrishnan, The Performance Evaluation of the Breast Mass classification CAD System Based on DWT, SNE AND SVM, International Journal of Emerging Technology and Advanced Engineering, 2013, ISSN 2250–2459, Volume 3, Issue 10, October 2013, Page Numbers: 581–587
- [25]. S Mohan Kumar & Dr. Balakrishnan ,The Performance Evaluation of the Breast Microcalcification CAD System Based on DWT, SNE AND SVM, CiiT International Journal of Digital Image Processing, 2013, Print: ISSN 0974 9691 & Online: ISSN 0974 9586, Issue-November 2013, Page Numbers / DOI: DIP112013005.
- [26]. Anisha Rebinth & Dr. S. Mohan Kumar "A Deep Learning Approach to Computer Aided Glaucoma Diagnosis" at IEEE International Conference on recent Advances in Energy-efficient Computing and Computation at St. Xaviers Catholic College of Engineering, Nagercoil. on 7th and 8th March 2019 and was publised IEEE Xplore Paper doi: 10.1109/ICRAECC43874.2019.8994988.
- [27]. Anisha Rebinth & Dr. S. Mohan Kumar CAD Techniques in Automated Detection of Retinal

- Anamolies-A Comparative Study" presented in a National Conference on Robotics, Artificial Intelligence and Machine Learning conducted by the Computer Science Department of RVS Group of Institution, Dindugal, Tamilnadu, on 11th of October 2019.
- Anisha Rebinth & Dr. S. Mohan Kumar [28]. "Wavelet Packet Transform Based Image Classification For Computer Aided Glaucoma Diagnosis Using Naïve Bayes Classifier" for Conference accepted proceeding publication in the Information System Design and Intelligent Applications (INDIA-2019) -International Conference conducted Department of Computer Science, Lendi Institute of Engineering and Technology on the 1st and 2nd of November 2019.
- [29]. Anisha Rebinth & Dr. S. Mohan Kumar "Computer Aided Glaucoma Diagnosis Using Retinal Fundus Images By Deep Learning" Accepted for 4 International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques.(ICEECCOT-2019) Conducted by GSSSIETW,Mysuru on the 13th and 14th of December 2019.
- [30]. Anisha Rebinth & Dr. S. Mohan Kumar "Computer Aided Diagnostic Techniques in Automated Detection of Eye Related Diseases A Comparative Study" presented at The International Conference on Innovative Research in Engineering ,Management and Sciences conducted by New Horizon College of Engineering and Technology held on 19th to 21st of December 2019.
- [31]. Anisha Rebinth & Dr. S. Mohan Kumar
 "Automated Detection of Retinal Anamolies
 Using Computer Aided Techniques A
 Comparative Research" presented at the 1st
 International Conference on Emerging Trends
 and Challenges in Applied Science,
 Engineering and Technology conducted by

Gopalan College of Engineering and Management held on 10th and 11th of March 2020.

- [32]. Darpan Majumder & Dr. S. Mohan Kumar, Review of Security Strategies used in Vehicular Adhoc Networks, International Conference on Innovative Research in Engineering, Management and Sciences ISBN: 978-93-5391-778-4, Page 138.
- [33]. Darpan Majumder & Dr. S. Mohan Kumar A Review of Black and Gray Hole Attacks in AODV published in First International Conference on Emerging Trends and Challenges in Applied Science, Engineering and Technology (ICECAET -2020)"Organizing by Gopalan College of Engineering and Management, on 10th and 11th, March, 2020.
- [34]. Darpan Majumder & Dr. S. Mohan Kumar "Edge Computing Applications on Vehicular Networks", in the International Conference on Applied Innovative Research in Engineering, Science and Management (IC-IREASM-2019) conducted by Sree Dattha Institute of Engineering and Science, Telangana on the 15th and 16th of October 2019. International Journal Of Innovation In Engineering Research & Management ISSN: 2348-4918, VOL 6 Oct 2019
- [35]. Anisha Rebinth & Dr. S. Mohan Kumar "Glaucomatous Image Classification CAD System Using Adaptive Wavelets, Probabilistic PCA and Random Forest Techniques Machine Learning Model" International Journal Of Innovation In Engineering Research & Management ISSN: 2348-4918, VOL 6 Oct 2019.

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