

ALGORITHM DEVELOPED FOR SEARCHING LITERATURE IN PLANTS THROUGH OFFLINE OR ONLINE

Prashant J. Gadge¹, V. N Nathar², A. B Rajurkar³

¹Department of Biotechnology, M.G.M.'S College C.S. & I.T. Basmat Road, Parbhani 431 401
Maharashtra.

²Sant Gadge Baba Amravati University, Amravati. Ph.(02452)249708.

³Department of Agril. Biotechnology, M.A.U., Parbhani 431 401 Maharashtra.

ABSTRACT:

Huge amount of online data is available for plants in all the branches of plant sciences but the same is not available offline. When the data is not available online due to obstruction then one can obtain it offline. In the present study, using visual basic, which is a fourth generation language a programme, has been developed. It provides a graphical user interphase to work online and offline. The user can use plant name or chromosome number to work with this program. It has been linked to various databases. This program will help the users in managing their time.

Keywords: online data, graphical user interphase, databases, program.

Introduction:

There are many databases available online related to all the branches of plant sciences e.g. W3 TROPICOS database as the part of available online related to all the Missouri Botanical Garden [1]. Other type of databases includes those covering certain geographical areas. Here, PhytoKaryon, the database covering European and Mediterranean area, developed by the University of Patras, should be mentioned [2]. Other examples of the geographically restricted databases are those for the United Kingdom and Ireland, presented by the Botanical Society of British Isles [3].

These databases has many limitations, the one of the limitation is that the databases are mostly available only as online databases, to overcome this limitation we developed the algorithm for searching the information online and offline both.

Computer Simulation is a powerful alternative approach to solve numerical iteration using a high level language of interest. Simulation is a very useful research tool and is a legitimate, disciplined approach to scientific investigation and its value needs to be recognized and appreciated. Simulation analysis offers a variety of benefits; it can be useful in developing theory and in guiding empirical work. It can provide insight into the operation of complex systems and explore their behavior. It can examine the consequence of theoretical arguments and assumptions generate alternative explanations and hypothesis, test the validity of explanations [4]

To develop the program six forms with different controls were used. The first form shows the main interface. The second form shows the fields which are used in the present program like plant name and chromosome numbers. The

third, fourth, fifth and sixth form showed the connectivity to the databases which were in MS ACCESS.

The special features of algorithm are-

- 1) Probability of Chromosome number.
- 2) Storing, Searching and displaying free text information
- 3) Glossaries and notes or interpretation of characters.
- 4) Retrieval offline /online
- 5) Ability to provide large datasets.

6) Finding diagnostic description.

RESULT:

Fig.1 shows the main interface from where user starts to work over the database. The form 1 is supported with the menus to move over the program which contain File and Help menu only. File menu is the main entry for the search of database. It is consisted of view, edit and exit menu.

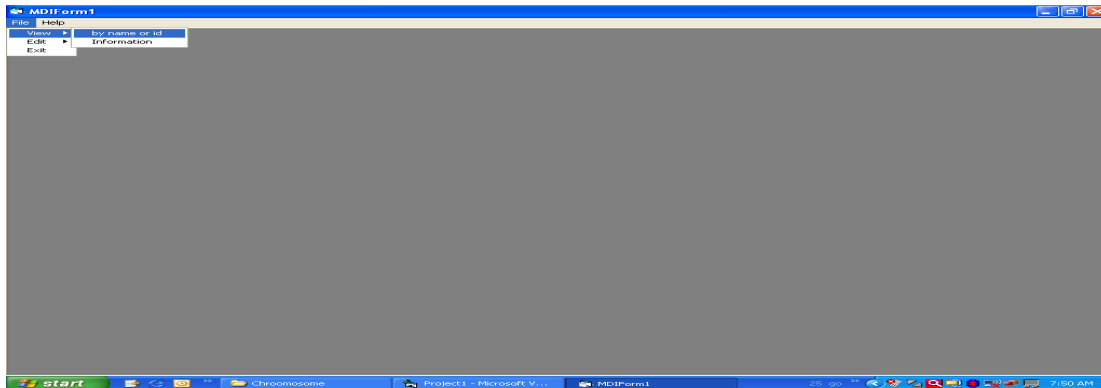


Fig 1 Main interface of algorithm

With the use of view menu (Fig. 2) user enter to new form by choosing the option either by name of plant or by chromosome number. When user select chromosome number user has to enter chromosome number in digit else when user uses the plant name, scientific name is required.

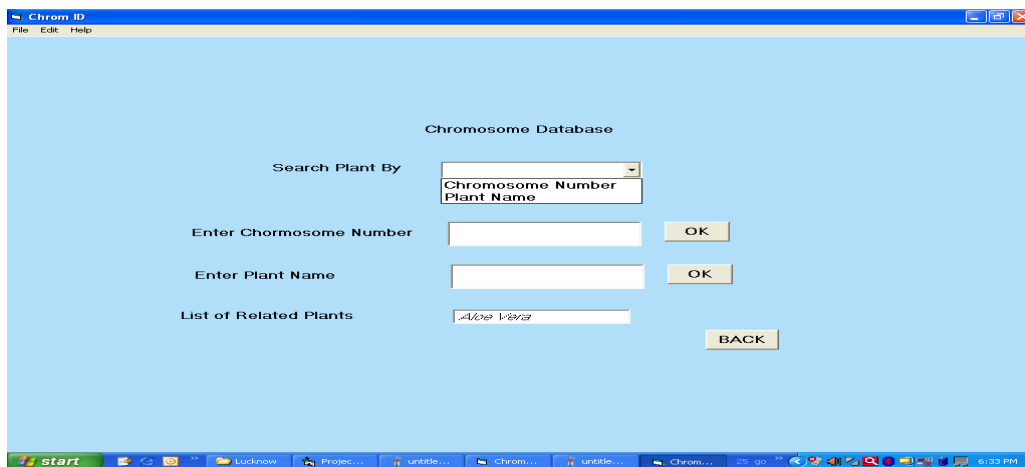


Fig. 2 Database

In form 3 (fig.3) the details of the given plant appear as different fields like Taxonomy, Genetics, Cytology, Economic importance of the plant and the images collected from various sources.

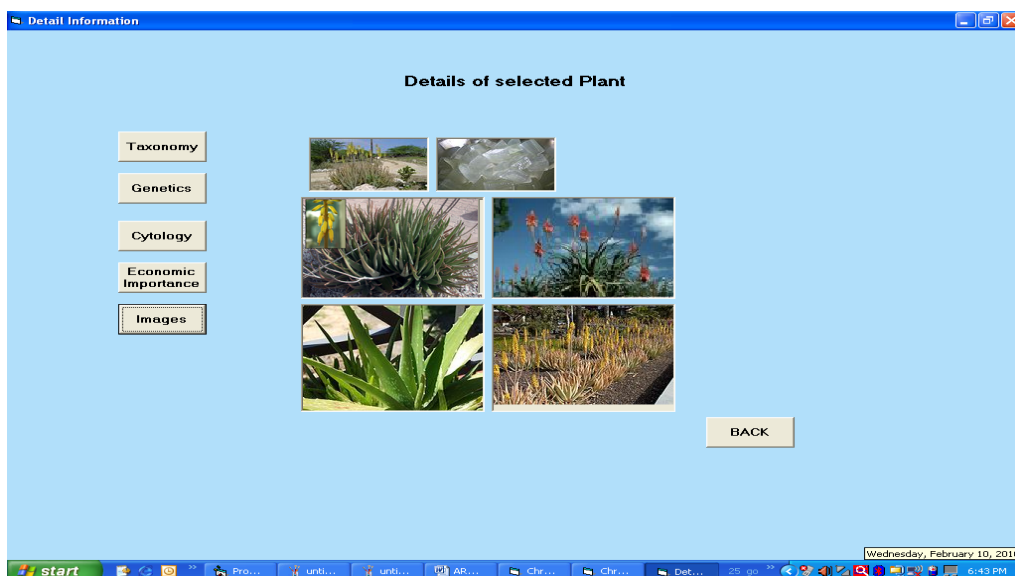


Fig. 3

Form 4 (Fig.4) shows the information to edit and save the extra data which is not available in the database of the algorithm.

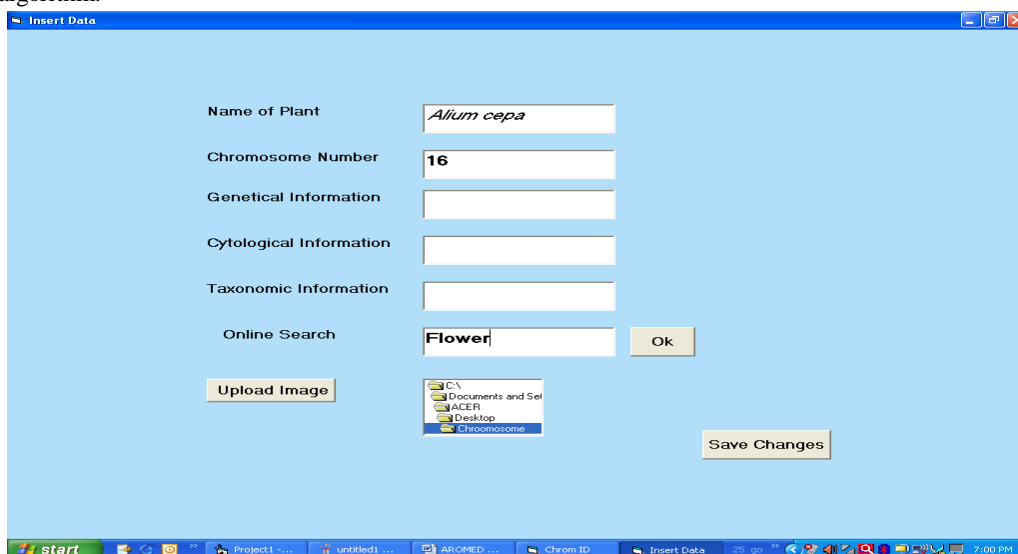


Fig. 4 Insert Data

Conclusion: - with the help of menus developed in the program user can utilize the resources built with in the program. It include the use of menus like File to open the database, exit the program, by using edit menu user can edit the data or insert the data as new field. Help is the important menu to help user for different task like how to use the program also it provide the information regarding the developer and the source to build the program.

REFERENCES:

1. Missouri Botanical Garden 2005. w3TROPICOS – Index to plant chromosome numbers data base. Available on-line: <http://mobot.mobot.org/W3T/Search/ipcn.html>.
2. KAMARI, G. 2003. PhytoKaryon: the karyological resource for Euro-Mediterranean plant taxa. OPTIMA Newsletter 37: 28–29. Available on-line: www.phytokaryon.biology.upatras.gr
3. Botanical Society of the British Isles, 2005. BSBI database – Cytology. Available on-line: <http://rbg-web2.rbge.org.uk/BSBI/>
4. Abdul kadir Baba Hassan, Matthew Sunday & Onawola Hassan Jmoh, (2006). The Application of Visual Basic Computer Programming Language to Simulate Numerical Iteration, Leonardo Journal of Sciences, 1/125-126