

professional look-and-feel and provide an easy-to-use interface that the users are already familiar with. The ASP.NET platform will be used with the C# programming language to develop the application functionality. ASP.Net provides an object-oriented method for creating and interacting with Web pages. The developed client web application when compiled will be converted into standard HTML. Hence, the client application can be accessed from any platform through an Internet browser like, FireFox, Safari, Opera, Chrome, or Internet Explorer.

- Database Development: The web application will store its information in a back-end database (tier three), which will be accessed by the web service on behalf of the user. Microsoft's SQL Server 2008 R2, which is a DBMS (database management system), will be used as the database service. This DBMS provides seamless integration with the ASP.NET web service.

7. Conclusions

Currently in Cyprus, there is little progress towards sustainable housing, primarily due to a number of reasons: (a) there are many requirements regarding the environmental protection and sustainable development (with knowledge of perhaps a few), (b) no sustainable housing development has been planned or constructed in Cyprus, and (c) involved parties (engineers, town planners, Competent Authorities, etc) do not have a satisfactory level of awareness and knowledge of housing sustainable development and environmental design principles. The authors strongly believe that the presented software application would contribute significantly to the inversion of the above, especially nowadays that we are living in a digital era. The purpose of this application was to apply theoretical concepts of sustainable development to implement a system that would be able to calculate the sustainability performance of a housing development. As far as we know, this is the first software that deploys the mathematical model of [7] to determine the sustainability factor of a housing development. Existing techniques such as the ESI and EPI only allowed the evaluation of a country as a whole, but not separately for each housing development.

8. References

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