I. Research Overview and Outcome

What is EntiMid?

With increasing adoption of social networks as a communication avenue, comes the demand for applications to integrate and leverage the viral proliferation and extremely convenient information delivery mechanisms. The goal of this project was to connect EntiMid to social networks such as Twitter, MSN, Facebook, etc. using generative approaches (based on Kermeta) for their auto configuration. They were established to be both ways: from the home sensors to the social networks to publish events (such as health or mood status), as well as from the social networks to home actuators (voice messages translating some tweet or Facebook wall post).

Work Performed

EntiMid

Research Roadmap

The research work was executed in the following manner:
1. A comprehensive study of the system’s features and limitations (including the underlying technology, Kermeta) was done to assist in the integration planning and design.
2. Integration with social media outlets was designed and architected to fulfill requirements.
3. Actual development in Java was performed to deliver the integration to Facebook and Twitter APIs.
4. Testing and quality control was conducted to assure the successful execution of the integration.

Results & Impact

Industrials, associations and public institutions of the metropolis of Rennes, are working together on EntiMid to allow dependent people to stay at home without assistance as long as possible. The technologies used in each house vary, however with the abstraction layer over all these devices and technologies, EntiMid forms a multi-facet middleware. Such application when connected to some of the most popular social networks in the world can leverage the benefits of connectivity and social awareness to the elder, handicapped, and sick people alike.

II. International Experience

Universite de Rennes 1 & INRIA

Perhaps one of the things that impressed me the most during this experience were the installations of the INRIA research center at the Universite de Rennes 1. The building is environmentally friendly with plenty of sunlight and intelligent sensors to save energy. The facility houses around three hundred Researchers, Engineers, Faculty members, and Masters and PhD students from all over the world. The building also has numerous meeting rooms and an auditorium as well as a very well equipped cafeteria lounge to promote a social scene among students. My studio was located within a short walk from the building right across from the auditorium as well as a very well equipped cafeteria lounge to promote a social scene among students. The city has two main college campuses, Universite de Rennes 1 and 2, as well as other smaller specialty universities such as Agro Campus which focuses on Agriculture. During the long summer days, one can take a bus to either the north coast or the Atlantic coast to enjoy a day at the beach. Rennes has a small airport and a TGV station which makes it very convenient to travel around France and Europe while stationed in this charming French gem.

City of Rennes, France

The small but active city of Rennes is the capital of Bretagne and it is located 190 miles west of Paris. This city provides the perfect setting to experience the French culture at its finest. Rennes has a state of the art transportation system, vibrant music and art festivals, a wide variety of bars and restaurants, and a large population of students. The city has two main college campuses, Universite de Rennes 1 and 2, as well as other smaller specialty universities such as Agro Campus which focuses on Agriculture. During the long summer days, one can take a bus to either the north coast or the Atlantic coast to enjoy a day at the beach. Rennes has a small airport and a TGV station which makes it very convenient to travel around France and Europe while stationed in this charming French gem.

Travels Around France

Tour Eiffel
Wine Region of Bordeaux
Place de la Bourse, Bordeaux
Sunflowers, SW France
La Plage, Nice
Arch de Triumph, Paris

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