INTRODUCTION: The project aims to develop a system based on mobile devices for helping people with acquired brain damage on the development of the Daily Life Activities (DLA). Alterations in brain function prevents them from autonomously performing their everyday activities. The project has been developed by an interdisciplinary team of physician, occupational therapists and engineers.

MATERIAL AND METHODS: We combine the 2D barcodes with smartphones. These tags are used to associate task specific information with objects or places, so users can receive visual instructions to complete the task reading the tag with a smartphone. The mobile phones which have a camera are prepared to read information included in the tags. The tasks selected are: preparing orange juice and a cup of coffee, making two toasts and spread jam and butter on them. These tasks were subdivided into subtasks which will be sequentially showing in the phone screen.

RESULTS: Once the task is completed, the system will automatically notify the researchers data related to the user’s task such us the duration, elapsed time between one task and the next, knowing whether the user needed or not notifications for continuing with the task, etc.

CONCLUSIONS AND RECOMMENDATIONS: The preliminary results are encouraging, since from the information sent periodically by the family, we deduce that the device’s functionality is proper for its use at home and that it is helpful enough for incrementing the functional capability of the patient. We hope that the development of this system will let us to increase the number of tasks included on it.

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