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Health-related topics: ICT, SSH, Food Security



Development of Novel Wearable Technologies for the “*Healthcare Everywhere*” concept

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Institutional Information and Expertise



Izmir University of Economics (IEU) was established in 2001 by " Izmir Chamber of Commerce Education and Health Foundation " in Izmir/Turkey. Located on The Aegean Coast, Izmir is the **third** largest Turkish city (over 4 million inhabitants).



•The basic values of the institution: www.ieu.edu.tr

Participation, Innovation, Social Responsibility,
Perfectionism

•has 8 faculties, 2 schools, 3 vocational schools, 3 graduate schools, 9 research centers: offer 20 different associate degree programs, 35 different undergraduate programs, 45 different graduate programs and 9 different PhD programs.

Seven of the undergraduate programs being offered are dual diploma programs executed jointly with the USA-SUNY State University of New York .

•**Faculty of Medicine** is the new faculty of IEU, with highly qualified medical experts, aiming at the cutting edge Medical Service, Medical Education and Research.



Project Idea:

“Healthcare Everywhere”



- “**Health Preservation**” is gaining importance worldwide, and our institution has declared this area as a priority.
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- We **suggest** a “**Health Counselling Platform**”: to design and integrate novel wearable technologies for both health preservation programs and patient follow-ups.
- In order to obtain an ideally real-time and secure medical data management system, we are ready to **offer** broad medical expertise, background for interdisciplinary research and administrative support for new ideas and collaborations in this field.

Topic

- Effective collaboration among partners in areas of **medicine, software engineering and industrial engineering** is required.

The topics we are interested in are;
software engineering, cloud services, data management,
hardware solutions

Keywords:

Wearable technologies, e-health, health preservation

Health Counselling Platform and Device

Within the scope of this project;

- Glucometer
- Pulsimeter
- Sphygmomanometer,
- Pedometer,
- Thermometer,
- Sleep pattern detector
- Body fat calculator
- Emergency contact button

Healthcare
Everywhere Device

- The device should be able to;
 - sync with mobile applications
 - enable patients/ healthy people to reach daily personal health recommendations (such as exercise types, nourishment suggestions as well as recommendations from their healthcare provider)
- By using the mobile application of this system;
 - The patients/ healthy people should be able to;
 - make doctor's appointments
 - track operation/vaccine/therapy dates
 - The physicians should be able to;
 - instantly check patients' data to get information about health conditions such as pregnancy, diabetes etc. and patient specific info with doctor's confidentiality
- Optionally the device should also be able to send GPS location of the patient (i.e Alzheimer's disease or amnesia)
- It should also send notifications to caregivers, such as the time that the patient left the controlled area and establish direct communication between the patient and the caregivers as well as the family members, if needed.



Contact details



Thank you!

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