

Gergely Somogyi (Student Number:1814098)

Cloud Computing BSC, University of Wales Trinity St David, London Campus, Email: 1814098@student.uwtsd.ac.uk

Introduction:

CloudHeed is a web application what helps residential care homes daily administration task

Material Review

- Cloud Computing
- Web Application
- Software Development Methodology
- Existing Solution

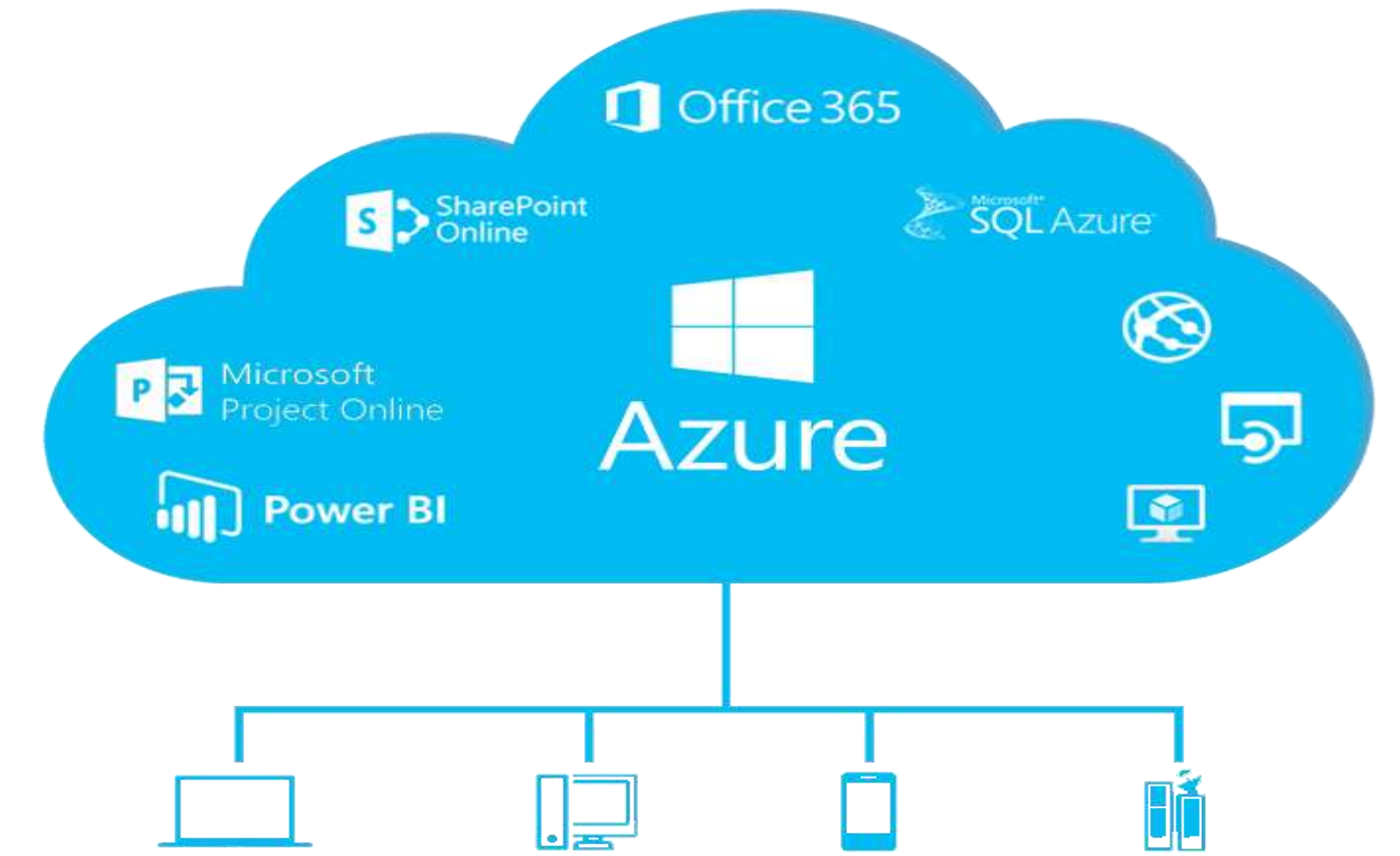


Figure 1 – Azure Cloud service diagram (source: nstools.com)

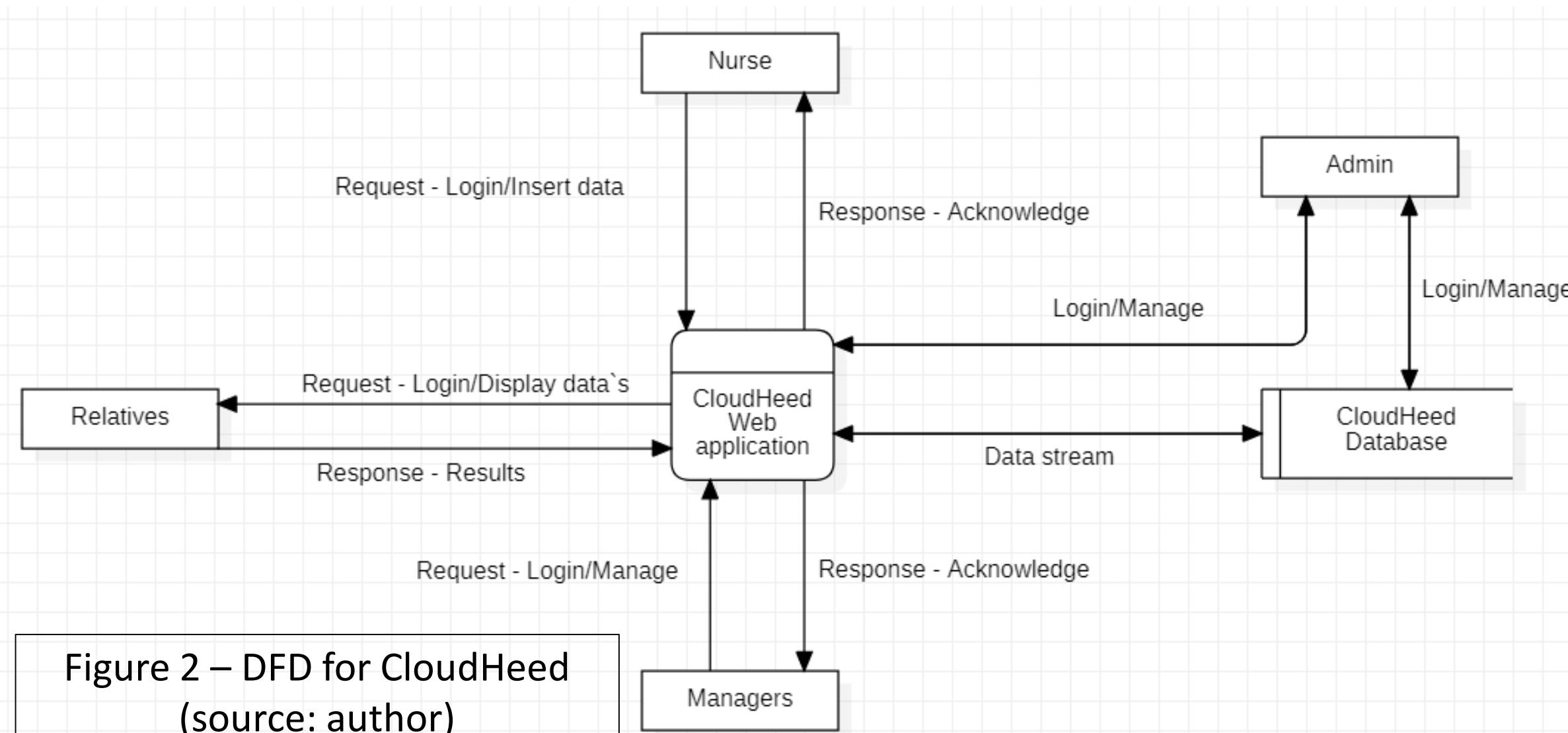


Figure 2 – DFD for CloudHeed (source: author)

CloudHeed

Web application in Microsoft Azure environment

- Accessible from any device at any time
- User types: Admin – Managers – Nurses - Relatives
- Web app architecture: Database – Application server – Web server - Users

Design: Front-End & Back-End

Front-End
(HTML, CSS)

- Webpage
- User interface
- Accessibility

Back-End
(MySQL, PHP)

- Database design
- Servers setup
- Connection

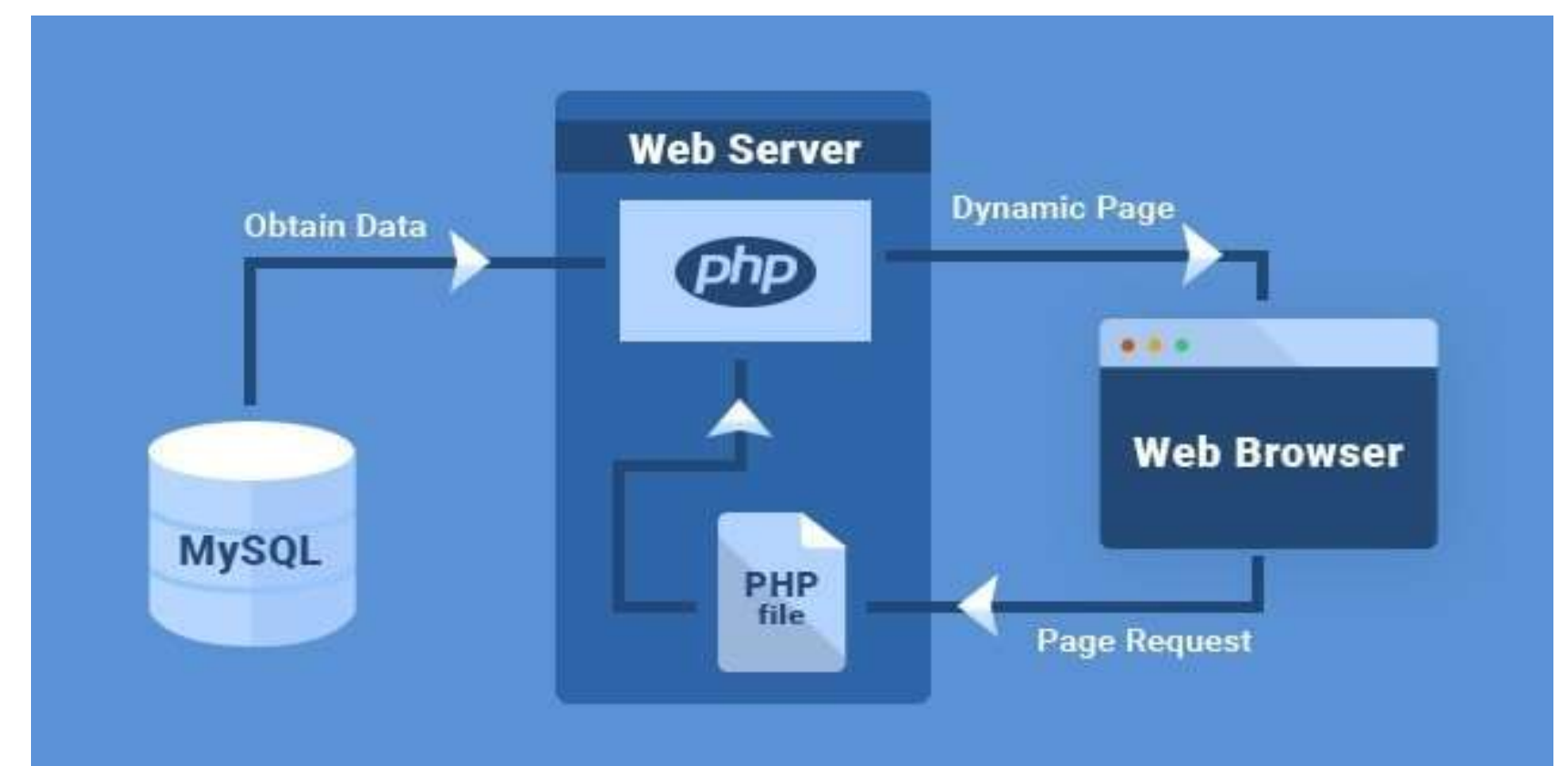


Figure 3: Web application connection diagram (source: milesweb.in)

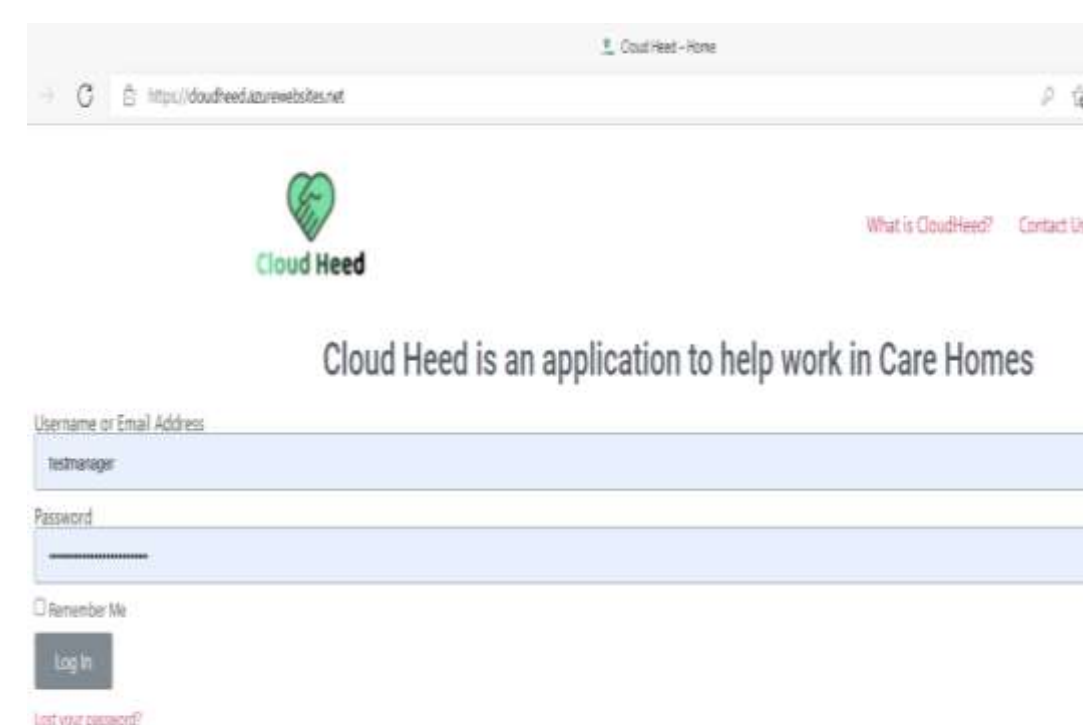


Figure 4 – Screenshot of front page (source: author)

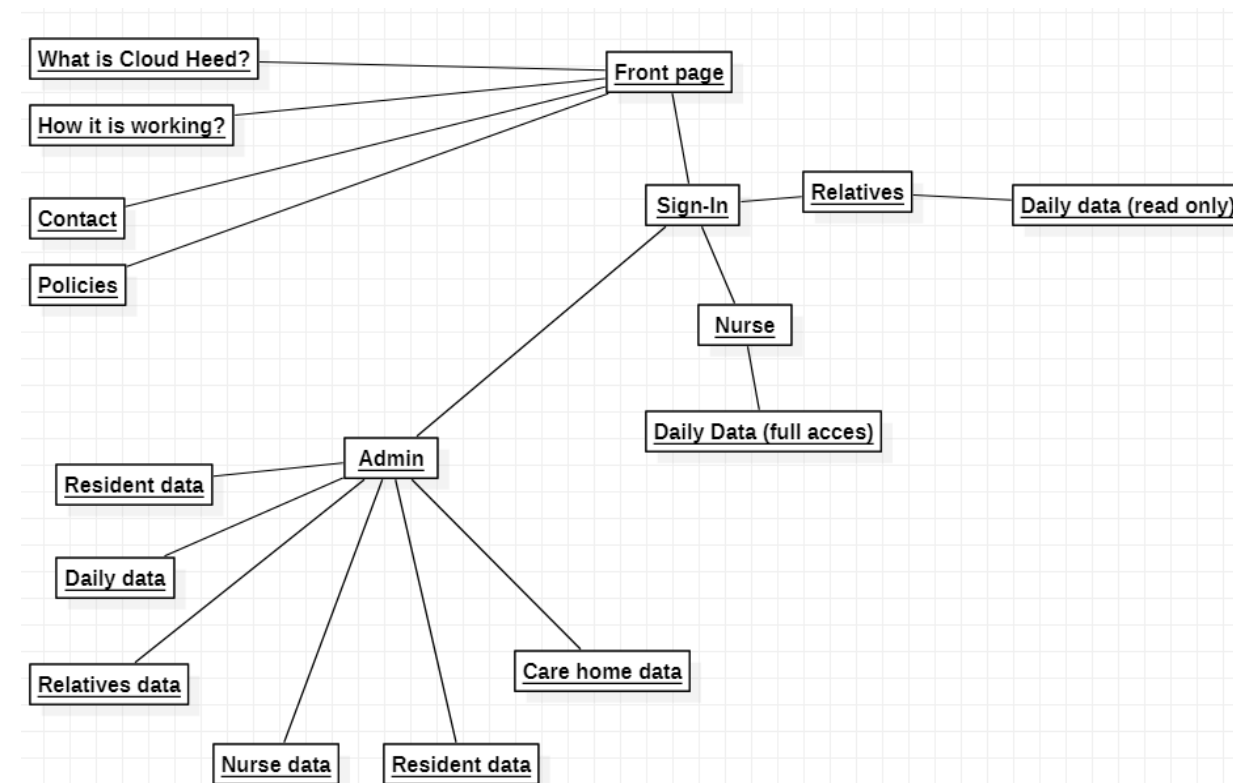


Figure 5 – Screenshot of site map (source: author)

Conclusion / Future Work:

Solution is useful for small enterprises as no need huge IT investments or innovate

Future enhancement possibilities:

- Payment system implementation
- Additional features: schedule for staff
- Connection with NHS systems to better data exchange and compatibility

References:

- [1] "Developer tools, technical documentation and coding examples", *Docs.microsoft.com*, 2021. [Online]. Available: <https://docs.microsoft.com/en-gb/>. [Accessed: 20- Nov- 2021].
- [2] S. Zygiaris, Database management systems : a business-oriented approach to ORACLE, MySQL and MS Access, First edition. Bingley, United Kingdom: Emerald Publishing, 2018.
- [3] E. Scott, SPA design and architecture : understanding single-page web applications. Shelter Island: Manning, 2016.
- [4] Saurabh A. Shah, Kashmira N. Kasat, and Dinesh G. Harkut, Cloud Computing - Technology and Practices. IntechOpen, 2019