Energy Tracking Web Application for New Forest Escapes

Project Initiation Document

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Project Sponsor: Rachel Parsons – Founder / Facilitator at New Forest Escapes

Industrial Consulting Project (COM617)

Solent University

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Link to Web Application:

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# Background

New Forest Escapes are a holiday-home rental agency that endeavours to help reduce negative travel effects (carbon emissions, environmental damage) whilst increasing positive ones; promoting sustainable economic development and building people’s love for nature (see, <https://newforestescapes.com/greener-greater-escapes/our-to-do-list/>). Video: (<https://solent.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=ab3288a9-150f-4ce0-a558-af8e006c8d44>)

Currently, there is no way for holiday rental agencies to charge guests for their energy usage; as a result:

* Homeowners face variable, and currently increasing, energy costs.
* There is no incentive for guests to be mindful of energy usage.

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# Project Definition

## Objectives, Deliverables & Acceptance Criteria

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| --- | --- | --- |
| **Objectives** | **Deliverables** | **Acceptance Criteria** |
| Minimum Viable Product - Energy Tracking Web Application | Sub-objectives | Sign off from Project Sponsor |
| As per sub-objectives |
| Guests can log and transparently view the energy usage | User can log a meter reading for a specific home | Numeric and photographic meter reading submittable by Guests |
| User can view costs and meter readings | Guests are able to easily view their costs and the meter readings for their stay |
| Homeowners can perform administrative actions for their Home(s) on the system and retrieve information about energy consumption at the homes | User can set a kWh energy tariff for their Home |  |
|  | User can view energy usage for each Stay |  |
|  |  |  |

## Scope

### Inclusions

### Exclusions

## Constraints

|  |  |  |
| --- | --- | --- |
| **Time** | **Cost** | **Quality** |
| Each Sprint must be completed on time to meet subsequent presentation / submission obligations | There is no budget allocated for this work so only free to use systems can be utilised | Opportunities for feedback from the Project Sponsor are limited, so the solution will mostly be based on assumptions from the brief |
| Final project delivery deadline is immovable | Each team member is allocated 3 hours of project time per week |  |
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## Assumptions

## Interfaces / Dependencies

### Systems

### Other

## 

## Risks and Issues

### Key Risks

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Risk ID** | **Description** | **Probability** | **Impact** | **Overall Level** | **Response Action** |
| 1 | Deadlines for sprints and the project not being met will result in a failing grade for the group | L | H | M | Regular catch-ups and fair delegation of work to ensure all team members contribute equally and to their strengths should ensure on time delivery |
| 2 | Using 3rd party providers for login methods (e.g. Apple, Facebook, GitHub, Google, Twitter, etc) relies on the user having one of those accounts and relies on affordable, continuous access to the service. A user’s access could be suspended or removed | L | H | M | Careful monitoring of 3rd party policies and reliability will inform priority of developing 1st party user authentication system. If more providers follow recent changes made by Twitter (https://www.forbes.com/sites/jenaebarnes/2023/02/03/twitter-ends-its-free-api-heres-who-will-be-affected/?sh=528bb25a6266), then risk level may need to be increased |
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### Key Issues

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| --- | --- | --- | --- | --- |
| **Issue ID** | **Description** | **Priority** | **Severity** | **Recommendation** |
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## Approach

# Milestone Dates

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| --- | --- | --- |
| **ID** | **Milestone** | **Date** |
| 1 | Project Commencement | 23/01/23 |
| 2 | Sprint 1 End | 09/02/23 |
| 3 | Sprint 1 Presentation | 16/02/23 |
| 4 | Sprint 2 End | 02/03/23 |
| 5 | Proof of Concept (Sprint 2) Presentation | 09/03/23 |
| 6 | Sprint 3 End | 11/05/23 |
| 7 | PID Submission | 04/05/23 |
| 8 | MVP (Sprint 3) Presentation | 11/05/23 |

# Project Roles

|  |  |
| --- | --- |
| **Role** | **Who** |
| Support Tutor | Martin Reid |
| Project Sponsor | Rachel Parsons |
| Project Manager  (& Flexible Resource) | Sean Pollard |
| Front End Development  (& Flexible Resource) | Ryan Gaudion  Jo Randall |
| Back End Development  (& Flexible Resource) | Steven Hawking  William Tasker |
| Testing  (& Flexible Resource) | Sophia Attrill |

# Project Controls

# References

# Appendix