**Licenciatura em Engenharia Informática  
Unidade Curricular - Desenvolvimento de Aplicações Web  
Ano Lectivo: 2022/2023 / 1º semestre / 3º Ano**

Relatório

Projecto - Análise e Desenho

**Vasco Gomes 19921**

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# Introdução

Neste trabalho o objetivo é realizar um estudo do design da aplicação web e para isso, iremos utilizar todos os recursos lecionados noutras unidades curriculares, assim como Tecnologias Web, lecionado pelo mesmo docente, para que depois desta fase conseguirmos realizar a implementação do sistema, que isso sim é o foco da unidade curricular de desenvolvimento de aplicações web.

# Análise do Sistema

Em seguida são descritos o levantamento e a especificação de requisitos e de características de elementos do sistema que foram desenvolvidos durante esta fase de análise do sistema.

## Caracterização dos atores

Nesta secção do trabalho irei começar por criar personas, e neste caso irei começar por fazer 2 personas que irão corresponder aos 2 atores dos casos de uso.

As nossas 2 personas serão os Cliente e o Administrador do Sistema.

O objetivo do Administrador é realizar o registo de eventos todo-o-terreno no Espaço do Utilizador, preenchendo as informações necessárias para o efeito, assim como a data, o local do encontro, o percurso, lanches, paragens.

Por outro lado o objetivo do cliente é realizar o registo em algum evento todo-o-terreno ou passeio que seja do seu intresse, utilizando para o efeito o Espaço do Utilizador.

Uma imagem com pessoa, homem, óculos, sorriso

Descrição gerada automaticamente

Uma imagem com pessoa, homem, óculos, sorriso

Descrição gerada automaticamente **Administrador** – Diogo André, 34 anos, tem curso profissional de Técnico de Gestão e Programação de Sistemas Informáticos na Escola Secundária de Silves, fez estágio na empresa Zeroum em Silves, posteriormente tirou o curso de Engenharia Informática em Beja.

Figure 1-Diogo André

De seguida, como este é um aficionado da marca UMM, decidiu utilizar os conhecimentos adequiridos para montar uma agenda online de passeios e eventos todo-o-terreno para os aficionados como ele se pudessem juntar e conviver.

Uma imagem com pessoa, sorriso, jovem, rapaz

Descrição gerada automaticamente

Figure 2-João Silva

**Cliente** - João Silva - 18 anos, esta atualmente a concluir o 12º ano da escola de secundária de Beja, pretende realizar um passeio todo-o-terreno com o pai, de modo a passarem tempo juntos.

## Cenários de Utilização

Os cenários de utilização são por parte do Administrador e do Cliente

**Administrador** –

**Realizar operações CRUD sobre os eventos todo-o-terreno da base de dados –** Diogo André, cria novos eventos todo-o-terreno com as informações e descrições necessárias para o mesmo, assim como atualiza os eventos, e os elimina caso sejam necessários.

**Cliente** –

**Registo do cliente num evento todo-o-terreno –** João Silva, sendo um fã da marca UMM, pretende realizar um passeio todo-o-terreno com o pai de modo a descontrairem. Desta maneira, o João dirige-se ao website de eventos online todo-o-terreno para os aficionados da marca UMM, e escolhe o evento que deseja participar, que está mais perto da área de residencia do mesmo.

Para esse efeito, o João regista-se no website e entra no Espaço do Utilizador onde seleciona o evento em que se deseja inscrever, e indica o número de participantes, matricula do veículo, e concluí a inscrição no evento.

## Diagrama de Casos de Uso

Na secção, iremos apresentar os casos de uso que cada Persona tem que realizar no Sistema.

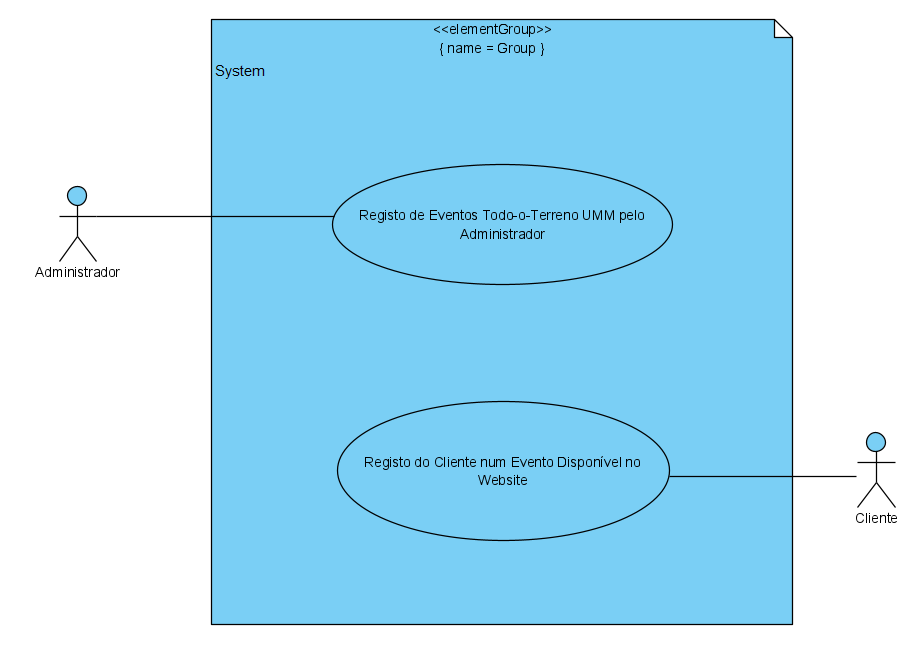


Figure 3-Diagrama de Casos de Uso

## Tabelas de Especificação

Nesta secção, podemos verificar as várias tabelas de especificação dos vários casos de uso, que foram referidos na secção acima com auxílio de uma figura.

|  |  |  |  |
| --- | --- | --- | --- |
| Caso de Uso | Registo de eventos todo-o-terreno pelo administrador | | |
| Atores | Administrador | | |
| Data | 11/10/2022 | | |
| Descrição | O Admistrador do website de eventos todo-o-terreno decide realizar um passeio todo-o-terreno, e para isso mesmo, este entra no espaço do utilizador com as suas credênciais de administrador, o que possibilita a criação de eventos deste tipo, assim como a sua alteração e eliminação.  O Administrador dirige-se até ao menu de criação de um evento, e desta maneira este marca num calendário a data do encontro, assinala no mapa o local do encontro, define os requisites do mesmo preenchendo um formulário e de seguida elabora um pequeno resumo sobre como vai proceder o encontro ao longo do dia.  De seguida, este submeter o evento na plataforma, e este fica online para que os utilizadores possam inscrever-se.  O Sistema mostra uma mensagem de sucesso caso a submissão do evento tenha sido bem sucedida.  O Administrador pode visualizar os eventos já criados, assim como atualizar as informações dos mesmos, ou mesmo eliminá-los caso seja necessário, como já havia sido referido anteriormente. | | |
| Pré-condições | O administrador tem de possuir acesso á internet, este tem ainda de saber qual o local do encontro em que deseja que este seja efetuado, assim como a data e os restantes requisitos necessários para a realização do mesmo. | | |
| Pós-condições | O evento todo-o-terreno registado pelo administrador fica disponível para os clientes possam visualizar os detalhes do mesmo, assim como de se puderem increver no evento desejado. | | |
| Fluxo de eventos | Nº | Entrada do Ator | Resposta do Sistema |
| 1 | O administrador decide realizar um evento todo-o-terreno e desta maneira entra no espaço do utilizador com as suas credênciais. |  |
| 2 |  | O Sistema verifica os dados de login e entra no espaço de utilizador com conta de administrador |
| 3 | O administrador dirige-se ao menu de criação de eventos todo-o-terreno e preenche todas as informações necessárias para que o evento se realize. |  |
| 4 |  | O Sistema mostra uma mensagem de sucesso, caso este tenha sucesso, e guarda as informações na base de dados. |

Tabela 1-Tabela de Caso de Uso "Registar Evento Todo-o-Terreno pelo Administrador"

|  |  |  |  |
| --- | --- | --- | --- |
| Caso de Uso | Registo do Cliente num Evento DIsponível no Website | | |
| Atores | Cliente | | |
| Data | 12/10/2022 | | |
| Descrição | O Cliente deseja participar num evento todo-o-terreno da marca UMM, e para isso dirige-se ao website de Eventos Todo-o-Terreno UMM, onde vê quais os eventos disponíveis para participar, assim como os seus requisitos, a localização do mesmo e o resumo feito pelo Administrador.  Após o Cliente ter decidido qual o evento que deseja, este realiza o registo no website da Eventos Todo-o-Terreno UMM, preenchendo o scampos necessários.  O Sistema mostra uma mensagem de sucesso, caso o registo tenha sido efetuado com sucesso.  Depois do registo estar efetuado, este dirige-se á página de login, onde este introduz os dados com que efetuou a criação da sua conta e de seguida entra no espaço do utilizador.  O Sistema confirma que o login foi efetuado com credênciais válidas e redireciona o cliente para o espaço do utilizador.  Uma vez tendo realizado o login no espaço de utilizador, este seleciona o evento que deseja e preenche o formulário com as informações necessárias para a incrição no mesmo.  Sendo a incrição no evento realizada com sucesso, o Sistema mostra uma confirmação ao cliente de que este está inscrito no evento.  O Client epode ainda ver os eventos em que está incrito. | | |
| Pré-condições | O Cliente necessita de estar registado no sistema | | |
| Pós-condições | O Cliente fica inscrito no evento todo-o-terreno que selecionou | | |
| Fluxo de eventos | Nº | Entrada do Ator | Resposta do Sistema |
| 1 | O Cliente seleciona o evento todo-o-terreno que no qual deseja increver-se |  |
| 2 | O Cliente realiza o registo no website preenchendo o formulário com as informações necessárias para o mesmo |  |
| 3 |  | O Sistema mostra uma mensagem de sucesso, caso o registo tenha sido efetuado com sucesso |
| 4 | O Cliente realiza login no sistema |  |
| 5 |  | O Sistema verifica as credênciaias inseridas, e caso sejam válidas, este redireciona o utilizador para o espaço deo utilizador. |
| 6 | O Cliente increve-se no evento em que deseja participar, preenchendo o formulário com as informações necessárias do mesmo |  |
| 7 |  | O Sistema mostra uma mensagem de Sucesso caso o utilizador se tenha regista no evento com sucesso |

Tabela 2-Tabela de Caso de Uso " Registo do Cliente num Evento DIsponível no Website "

# Desenho do Sistema

Em seguida são descritos os modelos propostos de interfaces gráficos com o utilizador e da base de dados.

## Modelação de Interfaces Gráficas com o Utilizador

### *Storyboard 1*

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Figure 4-StoryBoard Caso de Uso 1 – Dashboard Administrador

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Figure 5-StoryBoard Caso de Uso 1 – Criar Eventos

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| Figure 6 -StoryBoard Caso de Uso 1 – Ver Eventos |

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| --- |
| Figure 7 - StoryBoard Caso de Uso 1 – Atualizar Eventos |
| Figure 8 - StoryBoard Caso de Uso 1 – Apagar Eventos | |

### *Storyboard 2*

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| --- |
| Figure 9 - StoryBoard Caso de Uso 2 – Eventos e Detalhes de Eventos |

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| --- |
| Figure 10 - StoryBoard Caso de Uso 2 – Registo do Cliente e Login do Mesmo |

|  |
| --- |
| Figure 11 - StoryBoard Caso de Uso 2 – Incrição do Cliente num Evento Todo-o-Terreno |

|  |
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| Figure 12 - StoryBoard Caso de Uso 2 – Ver Eventos |

### Interfaces do caso de uso 1

![Uma imagem com texto

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automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZhc2NvAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0NgAAkpIAAgAAAAM0NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 13-Ecrã de Login

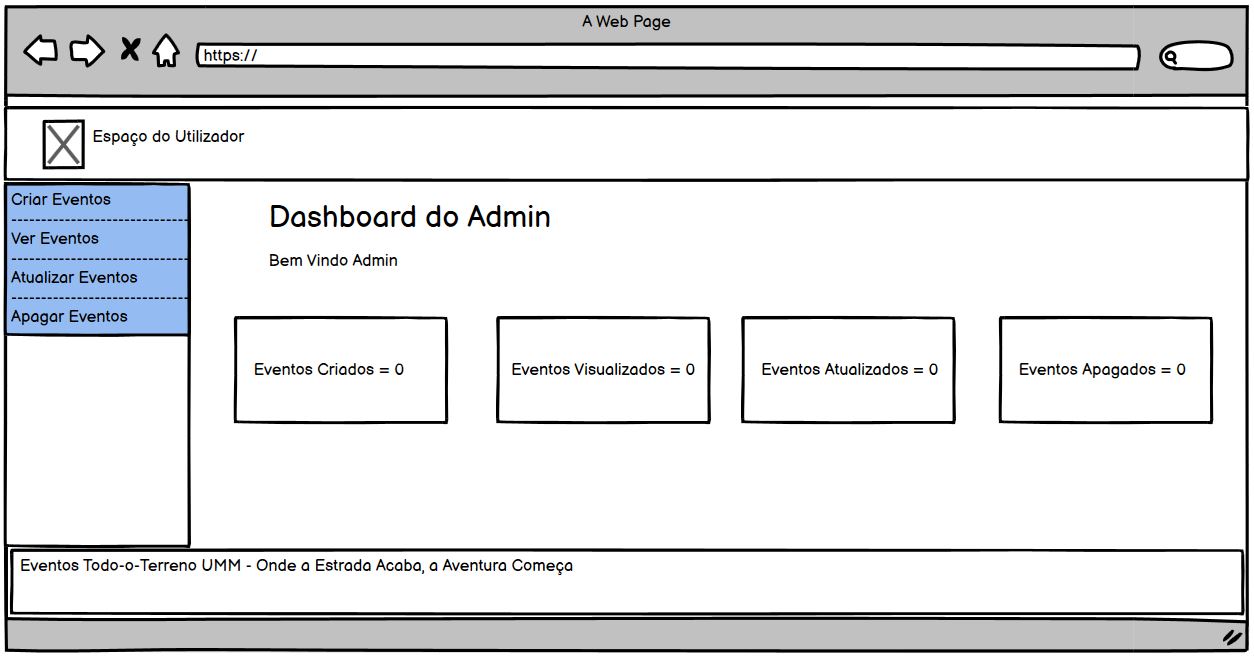


Figure 14-Ecrã Dashboard do Admin

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Figure 15-Ecrã de Criação de Eventos do Administrador



Figure 16-Alerta de Criação de Evento Bem Sucedida

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| Figure 17 - Ver Eventos Criados pelo Administrador |

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| Figure 18 - Atualizar Eventos Administrador |



Figura 19 - Evento Atualizado com Sucesso

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| Figure 20 - Apagar Eventos Administrador |



Figura 21 - Evento Apagado com Sucesso

### Interfaces do caso de uso 2

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Figure 22-Página Inicial

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Figure 23-Detalhes do Evento

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Figure 24-Registar Cliente



Figura 25 - Registo Bem Sucedido

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| Figura 26 - Login |

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| Figura 27 - Dashboard do Cliente |

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| Figura 28 - Increver em Evento Todo-o-Terreno |



Figura 29 - Inscrição no Evento Efetuado com Sucesso

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| Figura 30 - Ver Eventos |

## Modelação da Base Dados

Nesta secção, iremos demonstrar o modelo entidade-relação, como pode ser visto na figura seguinte.

### Diagrama E/R

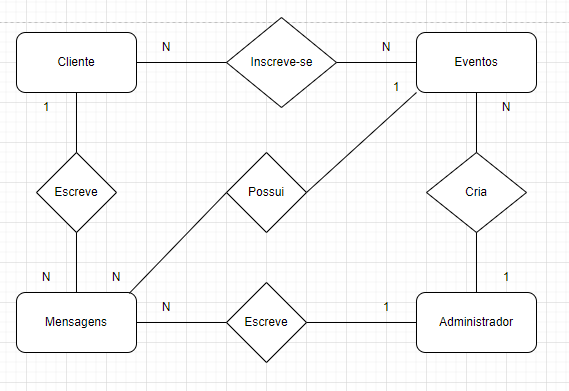


Figura 31 - Diagrama Entidade Relação

### Modelo Físico

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Figure 32 – Modelo Fisico

# Conclusão e Trabalho Futuro

No final deste trabalho, é possível concluir que realizar um bom planeamento das tarefas do Sistema, assim como o desenho das interfaces do mesmo, sem esquecer a modelação da base de dados é bastante importante, pois caso isso não tenha sido bem efetuado, é necessário voltar a desenhar o Sistema de modo a dar resposta aos utilizadores do mesmo.

Os casos de uso 1 e 2 irão ser implementados com recurso às tecnologias PHP e Laravel.