



POLITECNICO
MILANO 1863

Hypermedia Applications Design Document

Fabio Codiglioni - 10484720
fabio.codiglioni@mail.polimi.it

Luca dell'Oglio - 10497928
luca1.delloglio@mail.polimi.it

Alessandro Nichelini - 10497404
alessandro.nichelini@mail.polimi.it

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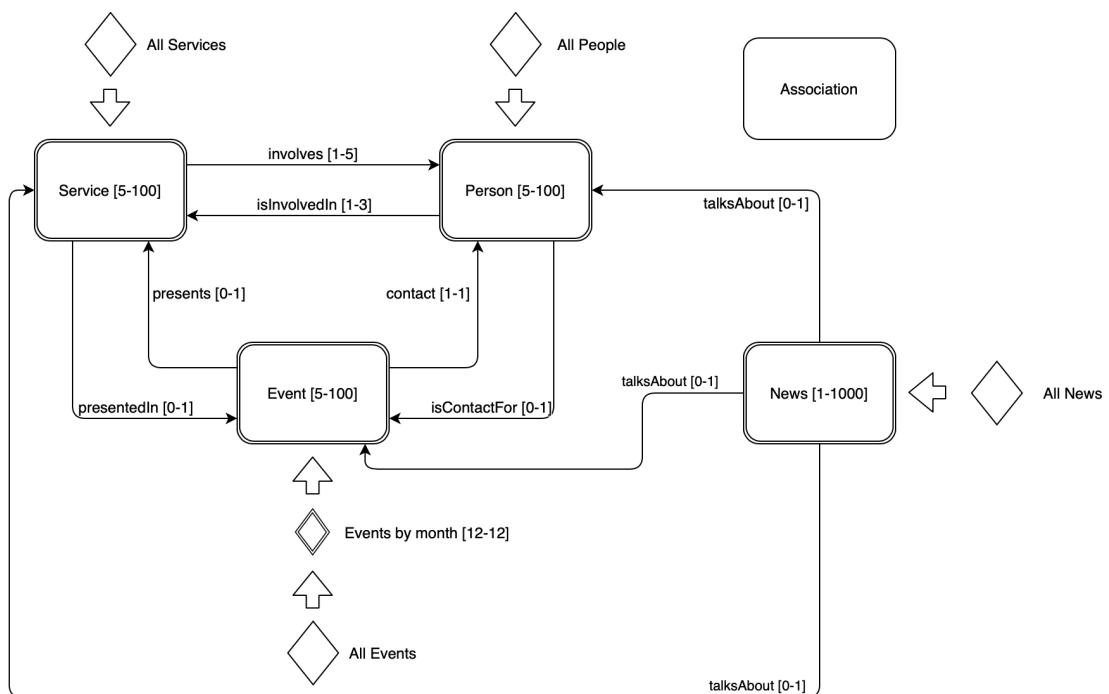
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1 Abstract

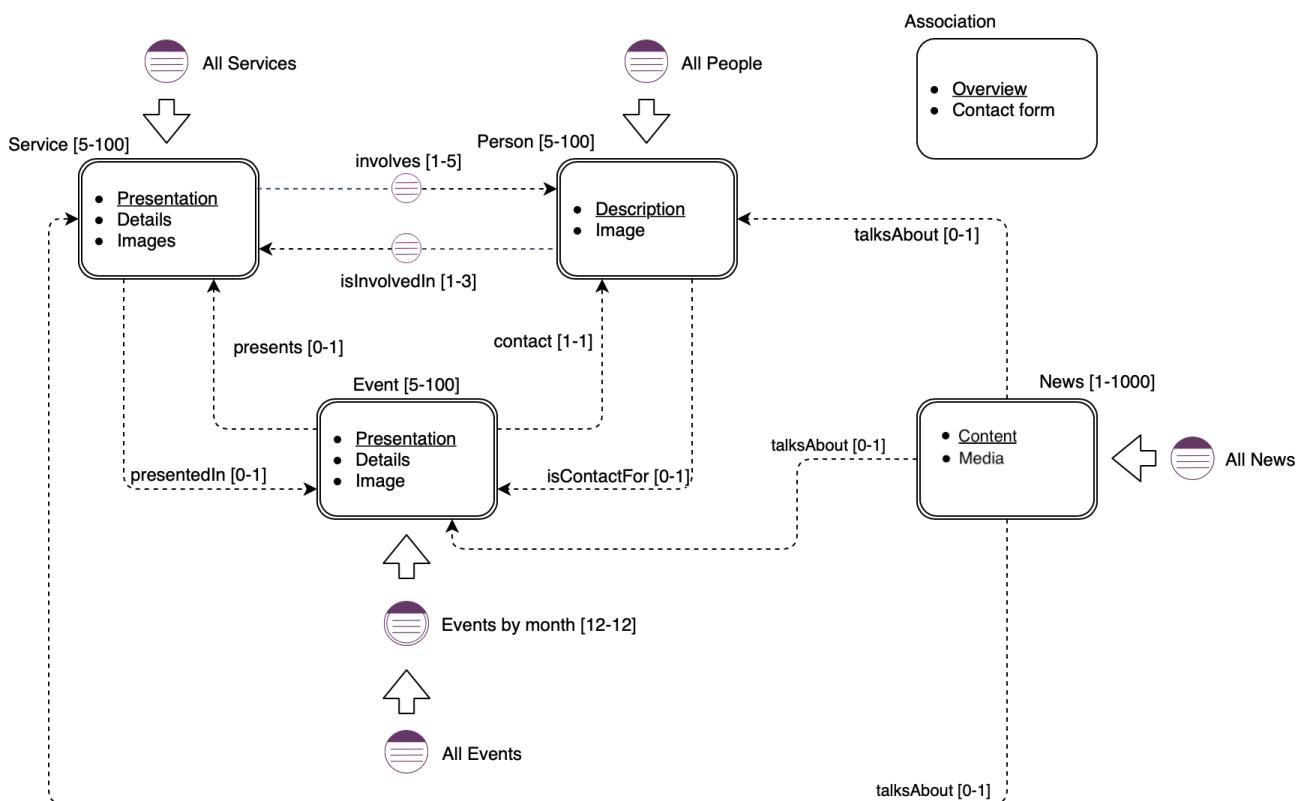
The subject of this document is the design of a website for a voluntary association, specifically a time bank. Section 2 contains the C, L, and P sub-models of the Interactive Dialogue Model (IDM). Section 3 lists 3 possible scenarios of use. Section 4 shows the design in the small for different pages. Finally, Section 5 contains the conceptual and logical database design.

2 Graphical representations

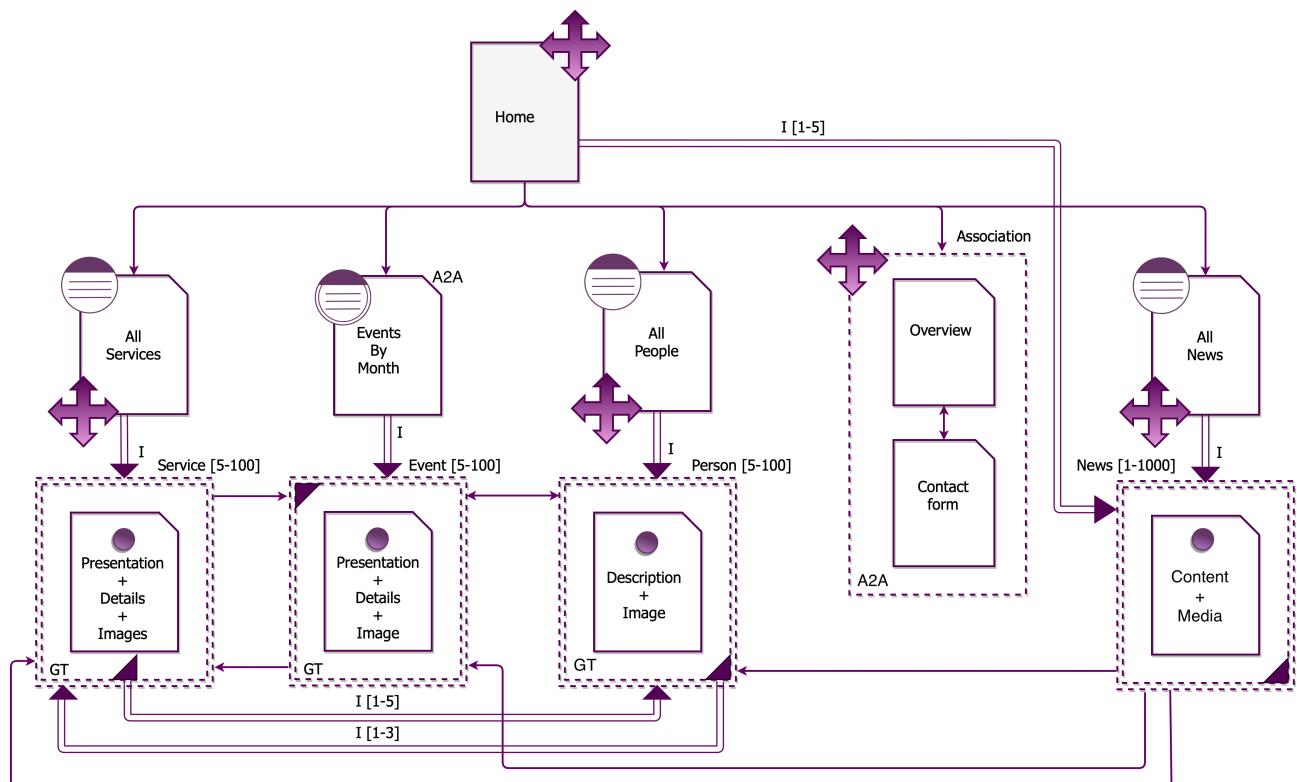
2.1 C-IDM



2.2 L-IDM



2.3 P-IDM



3 Scenarios

3.1 Scenario 1

Carol's parents think their daughter needs tutoring for school, so they look for a person who would be able to help her on the time bank website. They open the website and click on the "Services" button on the navigation bar (Figure 3.1). A list of the offered services will be then opened, including the link for the tutoring service (Figure 3.2). After clicking on the link, the parents will see the list of the volunteers that offer tutoring and, by opening the page of one of the volunteers (Figure 3.3), they can see his contact information (Figure 3.4).

The screenshot shows the homepage of the QualityTimeBank website. At the top, there is a navigation bar with links for Services, People, Events, About Us, and a search icon. Below the navigation bar, there is a section titled "New members!" featuring three profile cards for Natasha, Jane, and Wanda, each with a small photo and their joining date. The main content area features the QualityTimeBank logo and a quote: "TIMEBANK IS PASSIONATE ABOUT VOLUNTEERING AND BELIEVES THAT GOOD QUALITY VOLUNTEERING CAN MAKE A POSITIVE IMPACT ON OUR SOCIETY". Below the quote, there is a video thumbnail for a TEDx talk by Peter Scott about Timebanking in the UK. On the left side, there is a "News from the founders:" section with a link to "View all news". On the right side, there are sections for "People", "Services", and "Events". The "Services" section is highlighted with a red box around the "Services" link. At the bottom, there is a footer with social media links for Facebook and Twitter, and copyright information.

Figure 3.1

The screenshot shows the "Services" page of the QualityTimeBank website. The page title is "Services" and it includes a brief introduction about the organization's expansion into various fields. Below this, there are four service categories displayed in boxes: "English Lessons", "Private Tutoring", "Carers Training", and "Tech Support". The "Private Tutoring" box is highlighted with a red border. Each category box contains a small image, a title, and a brief description. At the bottom of the page, there is a footer with social media links for Facebook and Twitter, and copyright information.

Figure 3.2

The screenshot shows a service page for "Private Tutoring". At the top, there's a navigation bar with links for "Services", "People", "Events", "About Us", and a search icon. Below the navigation, a large image shows two people studying together. The text "Presented in: ["Studying Together"](#)" is displayed. A paragraph explains that QualityTimeBank groups volunteers who have been offering tutoring to young people for multiple years. It also states that users can decide when and where to meet by contacting a tutor. Below this, a section titled "Offered by:" lists two tutors: "Alessandro Nichelini" and "Anthony Stark". Each tutor has a profile picture, name, and a brief description of their offered subjects. At the bottom, there's a sidebar with categories like "Services", "People", "Events", and "About us", along with contact information (Email: info@qualitytimebank.com, Tel: 05478934) and social media links for Facebook and Twitter.

Figure 3.3

The screenshot shows a person profile page for "Alessandro Nichelini". At the top, there's a navigation bar with links for "Services", "People", "Events", "About Us", and a search icon. Below the navigation, there's a large circular profile picture of Alessandro Nichelini. His contact information is listed: "Contact for: ["Christmas Party"](#)", "Computer Science Engineering student, geek, Apple addicted. Temporarily math teacher.", and "I'm available for private tutoring in scientific field, and for helping elderly with tech issues.". Below his profile, there are links for "Private Tutoring" (Math, Computer science, physics) and "Tech support" (For elderly). At the bottom, there's a sidebar with categories like "Services", "People", "Events", and "About us", along with contact information (Email: info@qualitytimebank.com, Tel: 05478934) and social media links for Facebook and Twitter.

Figure 3.4

3.2 Scenario 2

Giovanni has been an English teacher for the last twenty years, and his New Year's resolution is to share his knowledge with other people. He has heard from a friend that the QualityTimeBank is presenting an English lessons service in January, so he searches the event. By clicking the "Events" button on the home page (Figure 3.5), he reaches the page containing the events of the current month, which is December. By clicking on "January" (Figure 3.6), he reaches the page of that month, where he finds the event he's looking for (Figure 3.7). By clicking on the link, he reaches the page of the event (Figure 3.8).

The screenshot shows the homepage of the QualityTimeBank website. At the top, there's a navigation bar with links for Services, People, Events (which is highlighted with a red box), and About Us. Below the navigation is a section titled "New members!" featuring profiles of three women: Natasha (Joined 15/10/2020), Jane (Joined 06/05/2020), and Wanda (Joined 13/06/2020). To the right, there's a large logo with the text "QUALITYTIMEBANK" and a quote: "TIMEBANK IS PASSIONATE ABOUT VOLUNTEERING AND BELIEVES THAT GOOD QUALITY VOLUNTEERING CAN MAKE A POSITIVE IMPACT ON OUR SOCIETY". Below this is a video thumbnail for a TEDx talk by Peter Port. Further down, there are sections for "People", "Services", and "Events", each with a "More" link. At the bottom, there's a footer with social media links for Facebook and Twitter, and copyright information: "© Quality TimeBank 2020".

Figure 3.5

This screenshot shows the events calendar page for January. The navigation bar at the top includes a "Jan" link highlighted with a red box. Below it, there are two event cards: "Tech Together" on December 7th and "Christmas Party" on December 22nd. Both cards include a thumbnail image, the event name, date, and a brief description. At the bottom of the page, there's a footer with social media links and copyright information.

Figure 3.6

This screenshot shows the events calendar page for January. The navigation bar at the top includes a "Jan" link highlighted with a red box. Below it, there are two event cards: "Talking Together" on January 14th and "Caring Together" on January 23rd. Both cards include a thumbnail image, the event name, date, and a brief description. At the bottom, there's a footer with social media links and copyright information.

Figure 3.7

This screenshot shows a detailed view of the "Talking Together" event. The navigation bar at the top includes a "Events > January" link. The main content area features a large thumbnail of a group of people, the event title "Talking Together", a brief description "Presenting: English Lessons", and details about the launch of a new service. Below the main content are "Previous" and "Next" navigation buttons, and a footer with social media links and copyright information.

Figure 3.8

3.3 Scenario 3

The organizer of the annual Christmas party of the association has lost the phone number of the contact for the event. She clicks the "Events" button on the home page (Figure 3.9), and she opens the event of the current month, which is December. There she reaches the page of the event (Figure 3.10), where she can find the link of the personal page of the contact for the event (Figure 3.11), which contains the phone number of the contact.

The screenshot shows the homepage of QualityTimeBank. At the top, there is a navigation bar with links for Services, People, Events (which is highlighted with a red box), and About Us. Below the navigation, there's a section for 'New members!' featuring profiles of three women: Natasha (joined 19/10/2020), Jane (joined 06/05/2020), and Wanda (joined 13/06/2020). To the right, there's a quote: "'TIMEBANK IS PASSIONATE ABOUT VOLUNTEERING AND BELIEVES THAT GOOD QUALITY VOLUNTEERING CAN MAKE A POSITIVE IMPACT ON OUR SOCIETY'". Below this, there's a video thumbnail for 'Peter Norton' with the text 'Timebanking in the UK: It's About T...'. Underneath the video, there are sections for 'People', 'Services', and 'Events'. The 'Events' section includes a sub-section for 'Tech Together' with a photo of two people at a computer. At the bottom, there are social media icons for Facebook and Twitter, and contact information: Email: info@qualitytimebank.com and Tel: 05478934.

Figure 3.9

This screenshot shows the events calendar for December. The 'Events' button is again highlighted with a red box. The calendar shows two events: 'Tech Together' on December 7th and 'Christmas Party' on December 22nd. The 'Christmas Party' event is described as a presentation of the Tech Support service. At the bottom, there are social media icons for Facebook and Twitter, and contact information: Email: info@qualitytimebank.com and Tel: 05478934.

Figure 3.10

This screenshot shows the details page for the 'Christmas Party' event. The title 'Christmas Party' is at the top, followed by a photo of two people holding green streamers. The text describes the event as a chance to celebrate Christmas and meet new people. It provides the date (December 22nd), place (Via del Bifrost 1, Asgard (CO)), and contact person (Alessandro Nichelini, with a red box around the name). At the bottom, there are social media icons for Facebook and Twitter, and contact information: Email: info@qualitytimebank.com and Tel: 05478934.

Figure 3.11

4 Design in the small

4.1 Home page

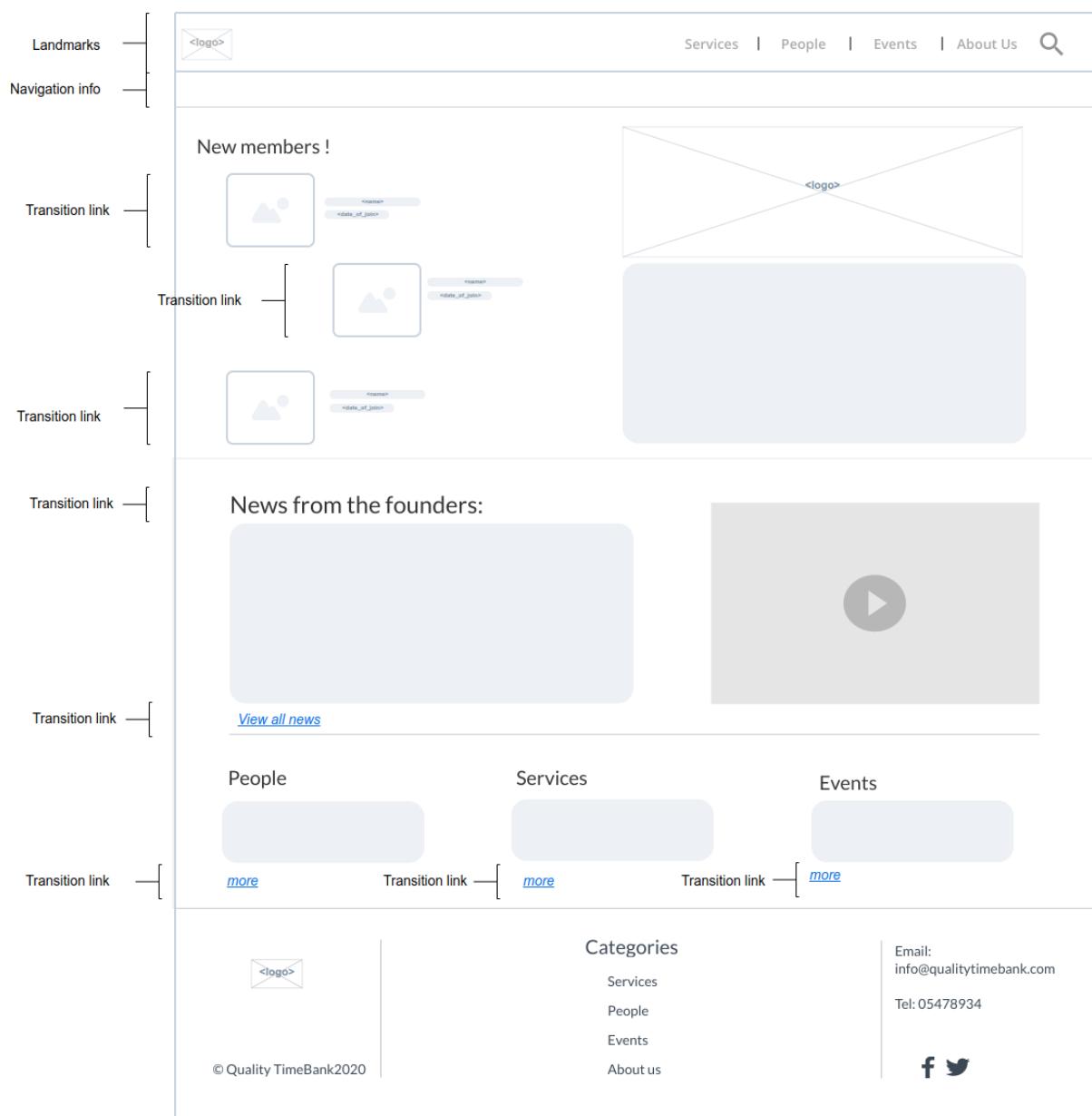


Figure 4.1: Wireframe

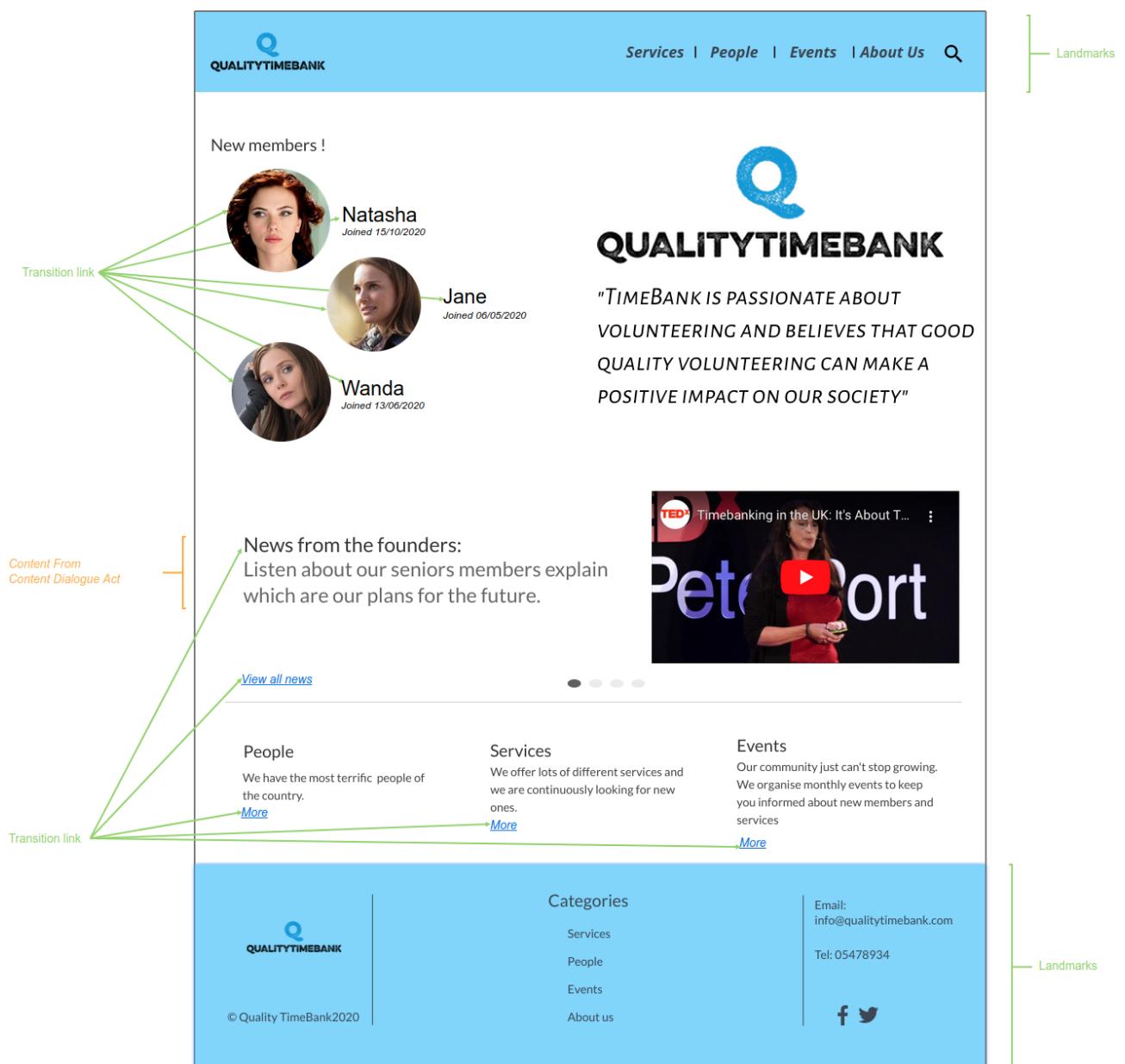


Figure 4.2: Mockup

4.2 Topic: Association

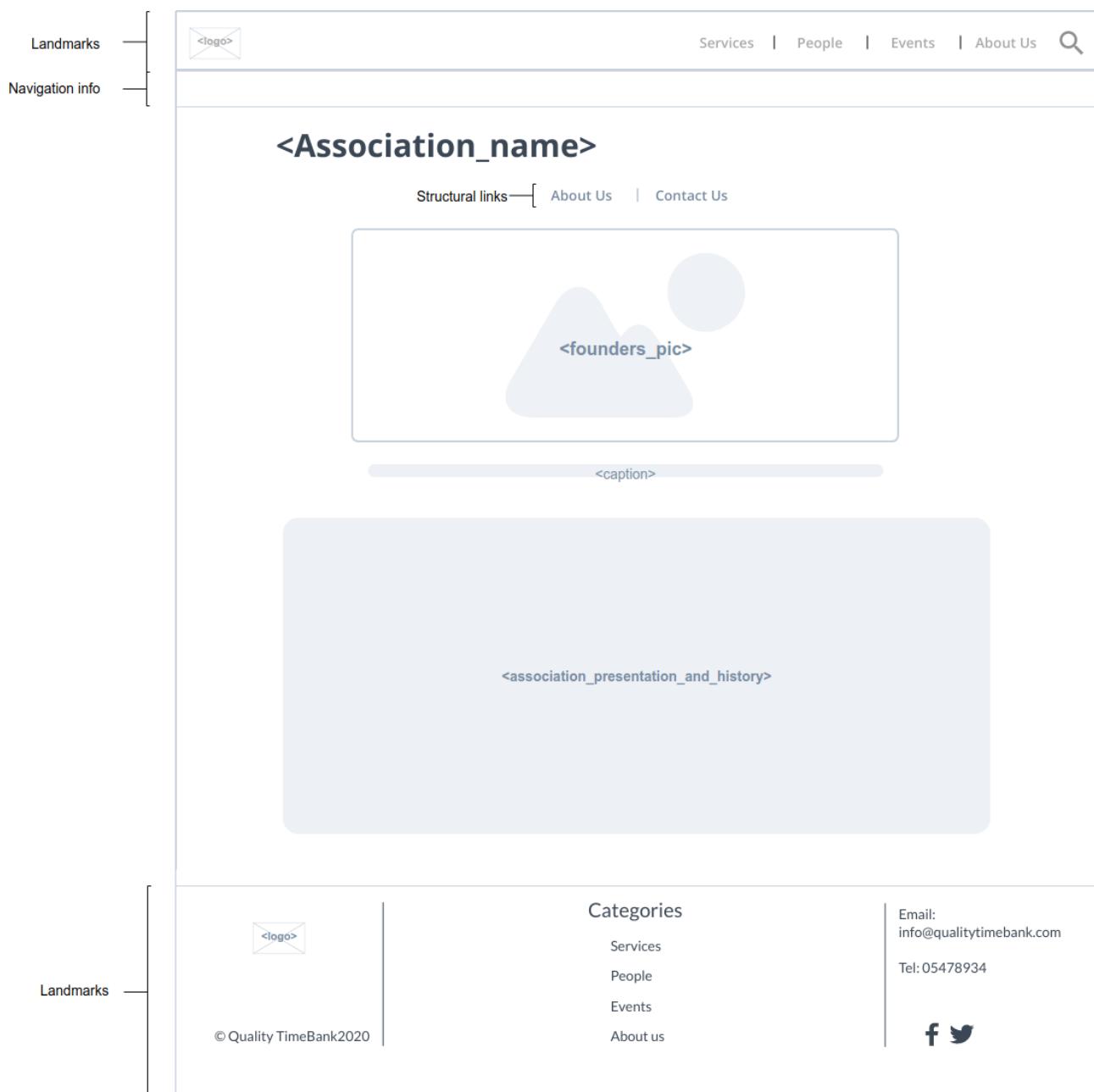


Figure 4.3: Wireframe

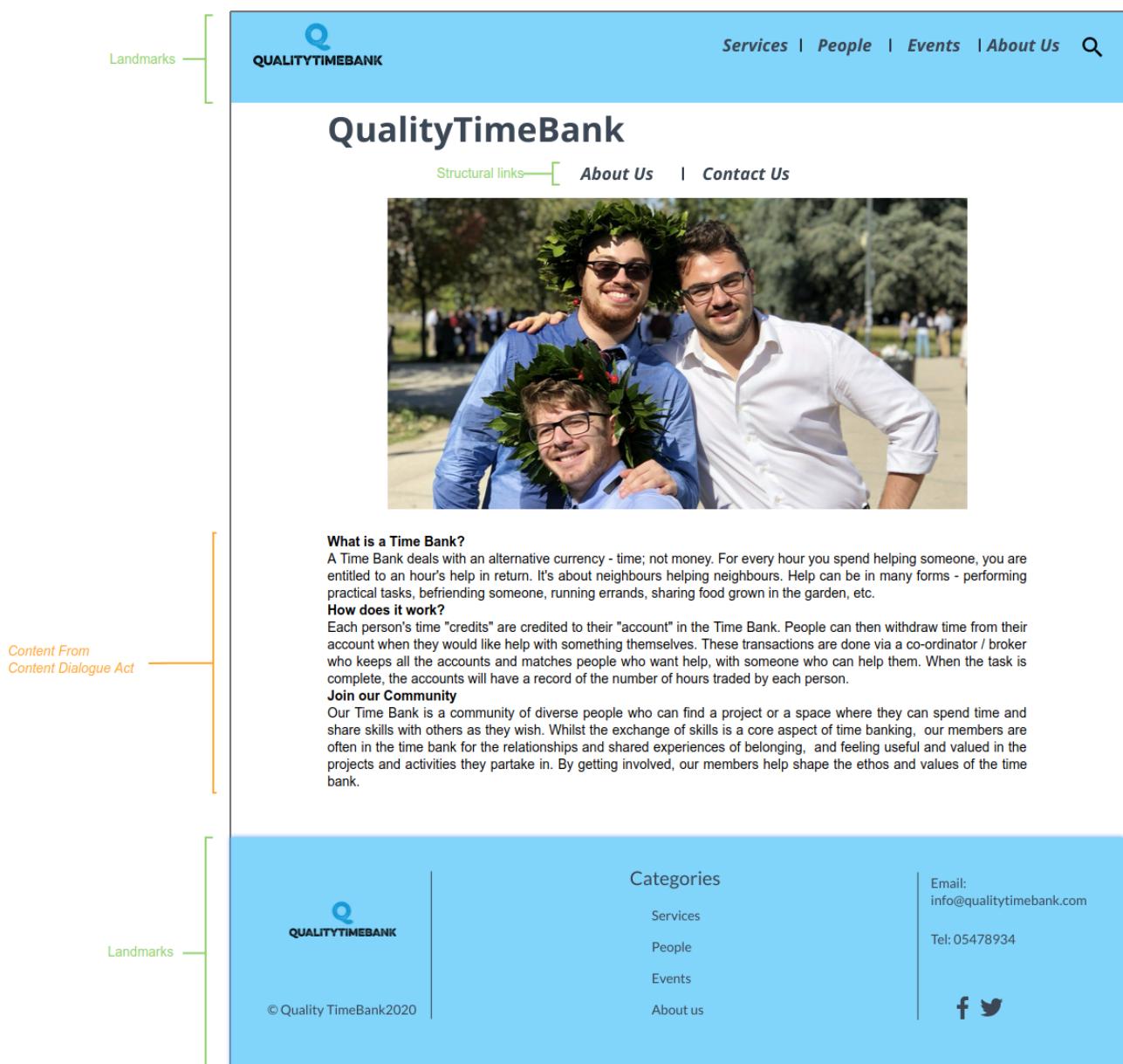


Figure 4.4: Mockup

4.3 Kind of Topic: Person

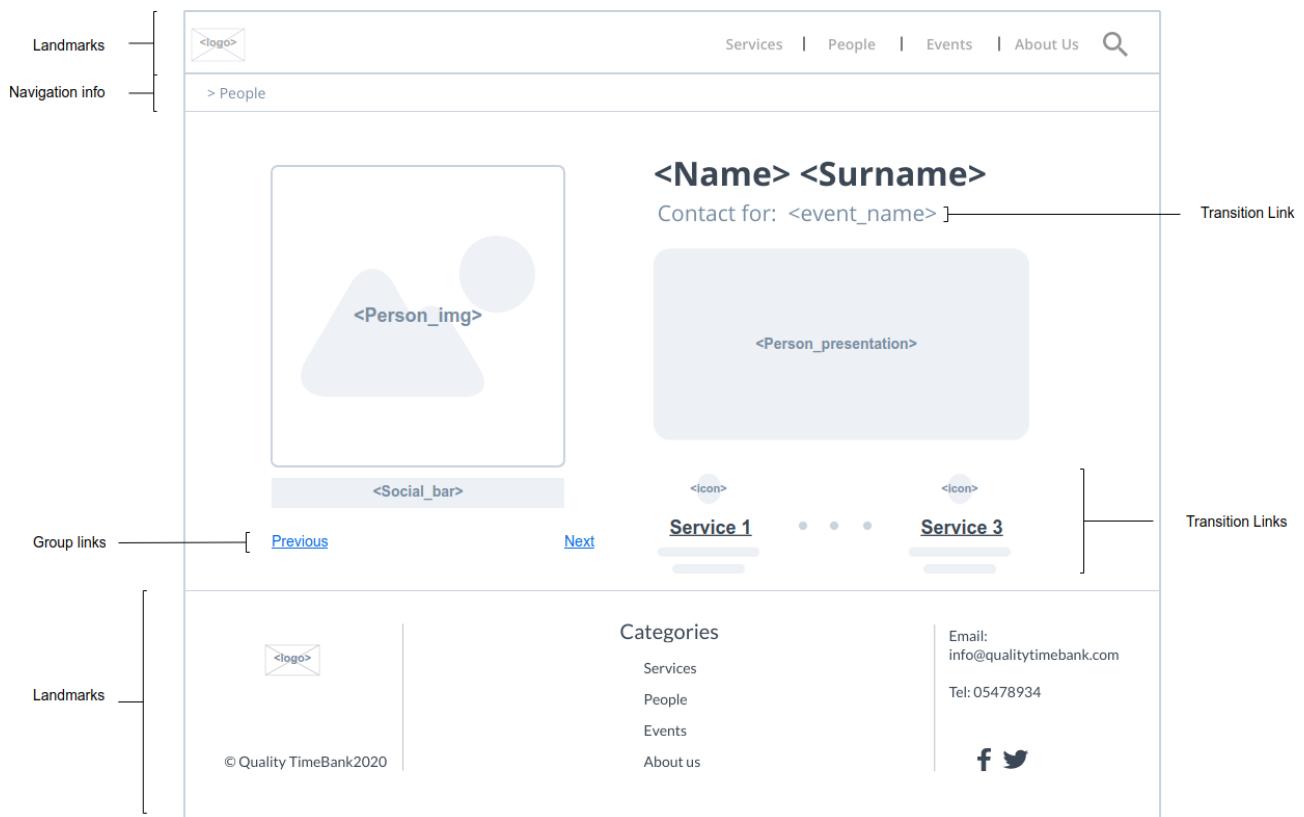


Figure 4.5: Wireframe

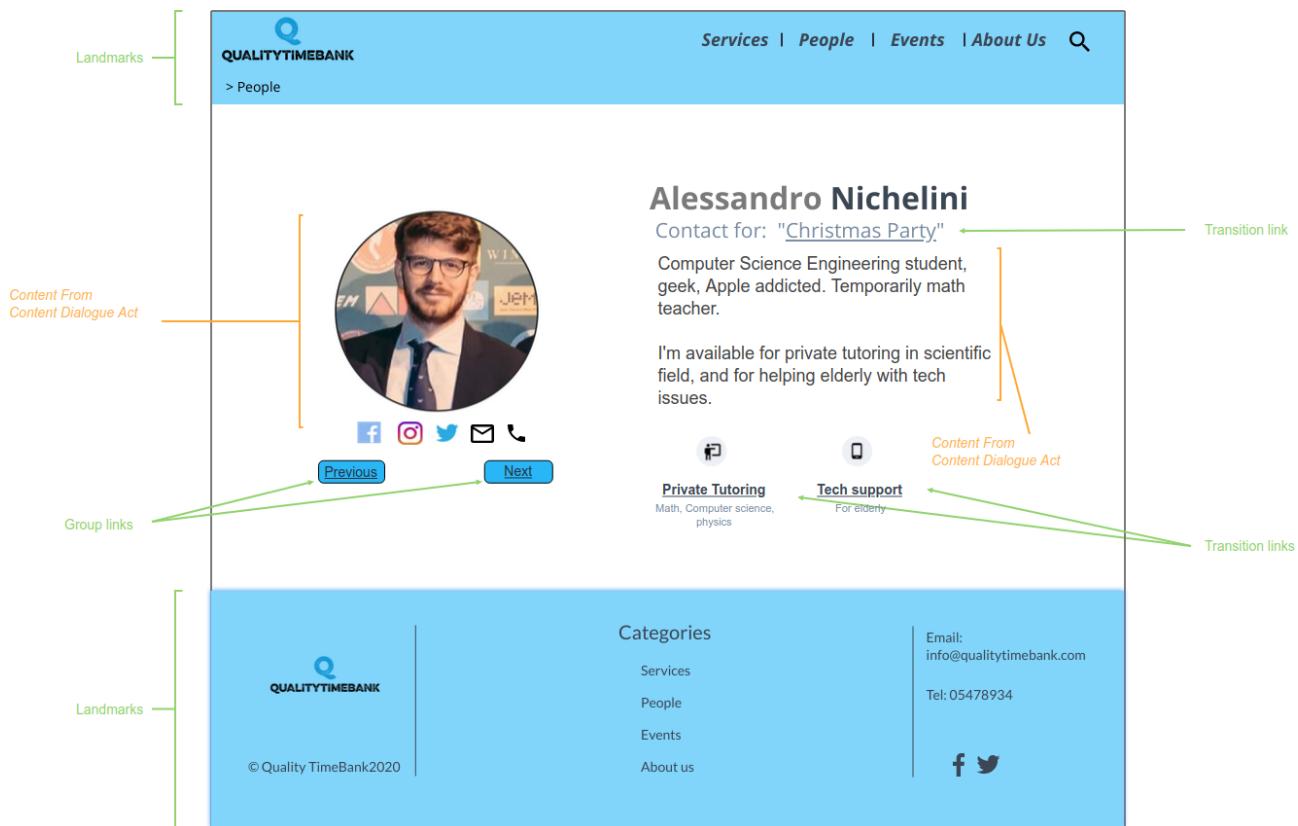


Figure 4.6: Mockup

4.4 Kind of Topic: Service

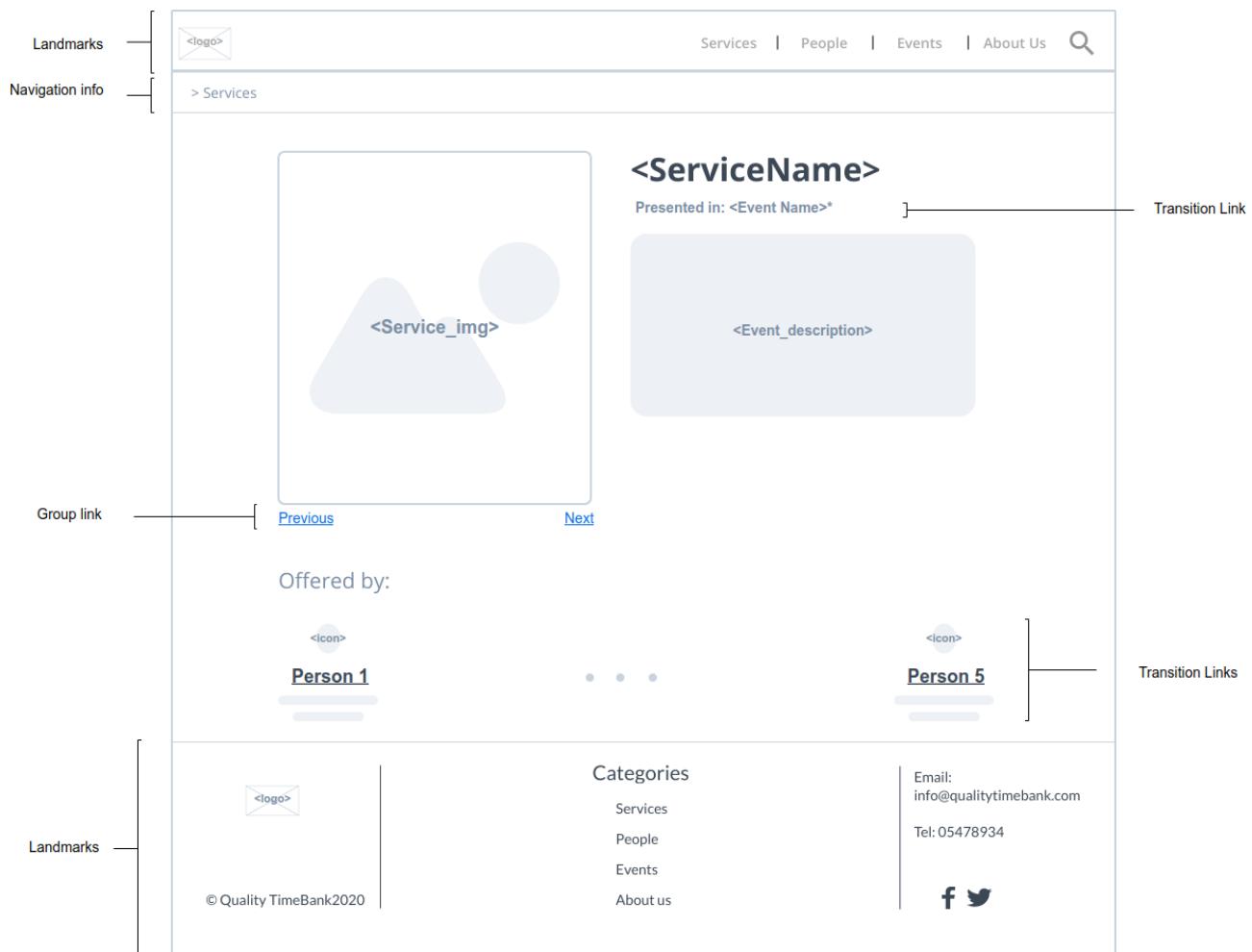


Figure 4.7: Wireframe

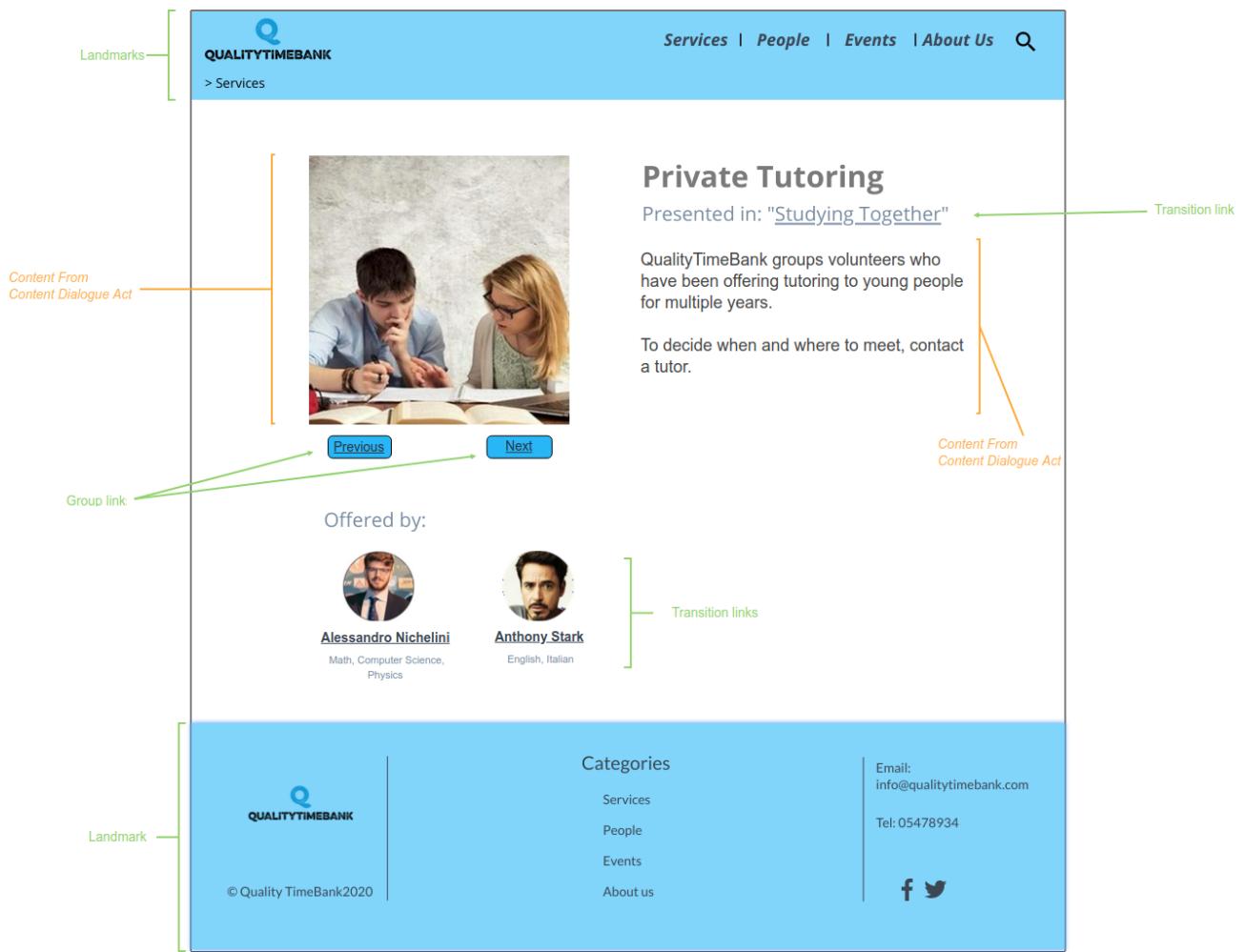


Figure 4.8: Mockup

4.5 Kind of Topic: Event

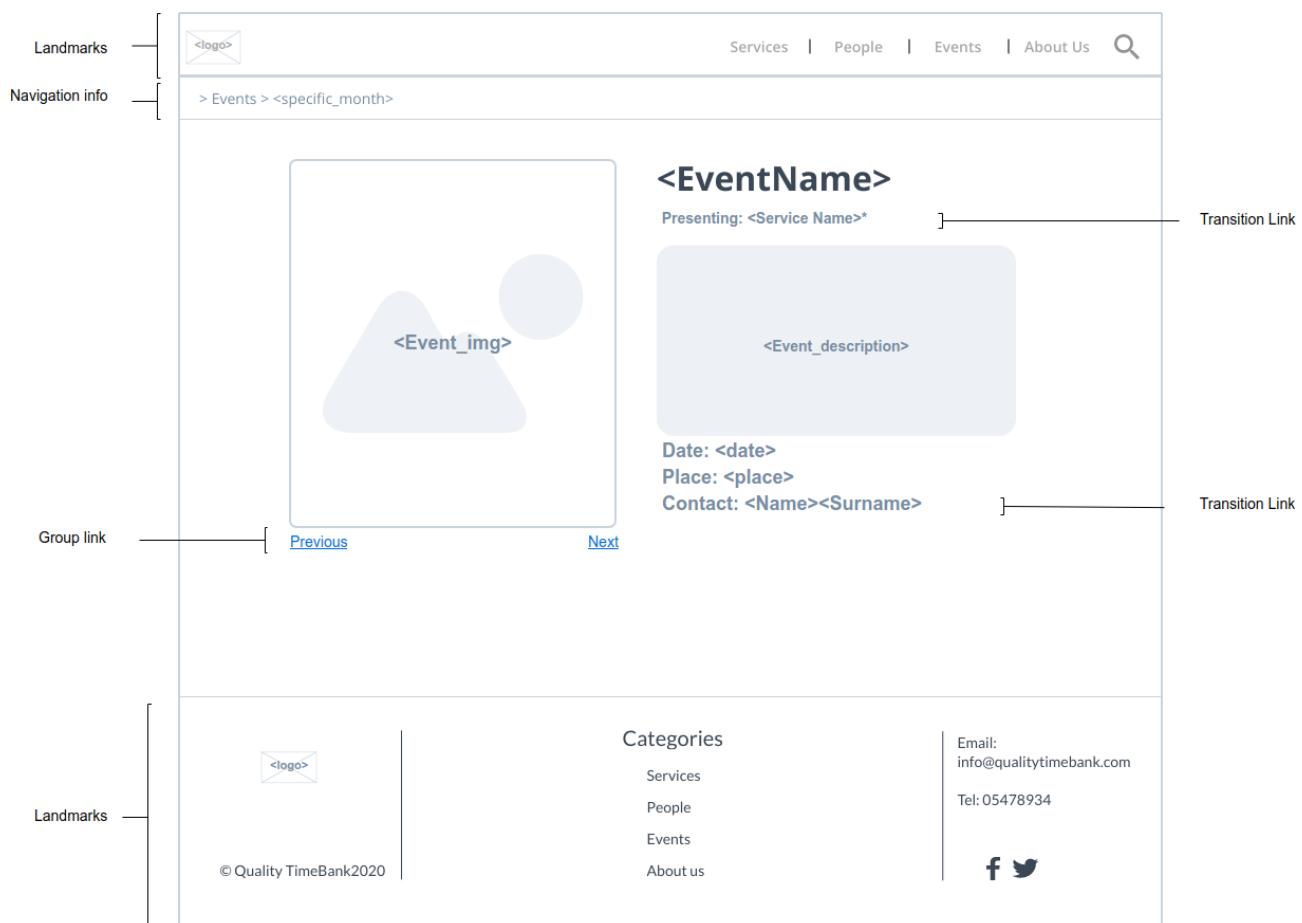


Figure 4.9: Wireframe

The screenshot shows a website for QualityTimeBank. At the top left is the logo 'QUALITYTIMEBANK' with a stylized 'Q'. At the top right are navigation links: 'Services | People | Events | About Us' and a search icon. Below the header, a breadcrumb trail reads '> Events > December'. The main content features a photograph of two people at a Christmas party, one holding a sign that says 'Ho Ho Ho'. To the right of the photo is the heading 'Christmas Party' and a descriptive text: 'Come celebrate Christmas with us! It has been a terrific year for our organisation. Many new people met, lots of shared experiences.' Below this are details of the event: 'Date: December, 22nd', 'Place: Via del Bifrost 1, Asgard (CO)', and 'Contact: [Alessandro Nichelini](#)'. At the bottom left is another logo for 'QUALITYTIMEBANK' and the copyright notice '© Quality TimeBank 2020'. On the right side, there's a sidebar with 'Categories' (Services, People, Events, About us), contact information ('Email: info@qualitytimebank.com', 'Tel: 05478934'), and social media icons for Facebook and Twitter.

Figure 4.10: Mockup

4.6 Introductory page: People

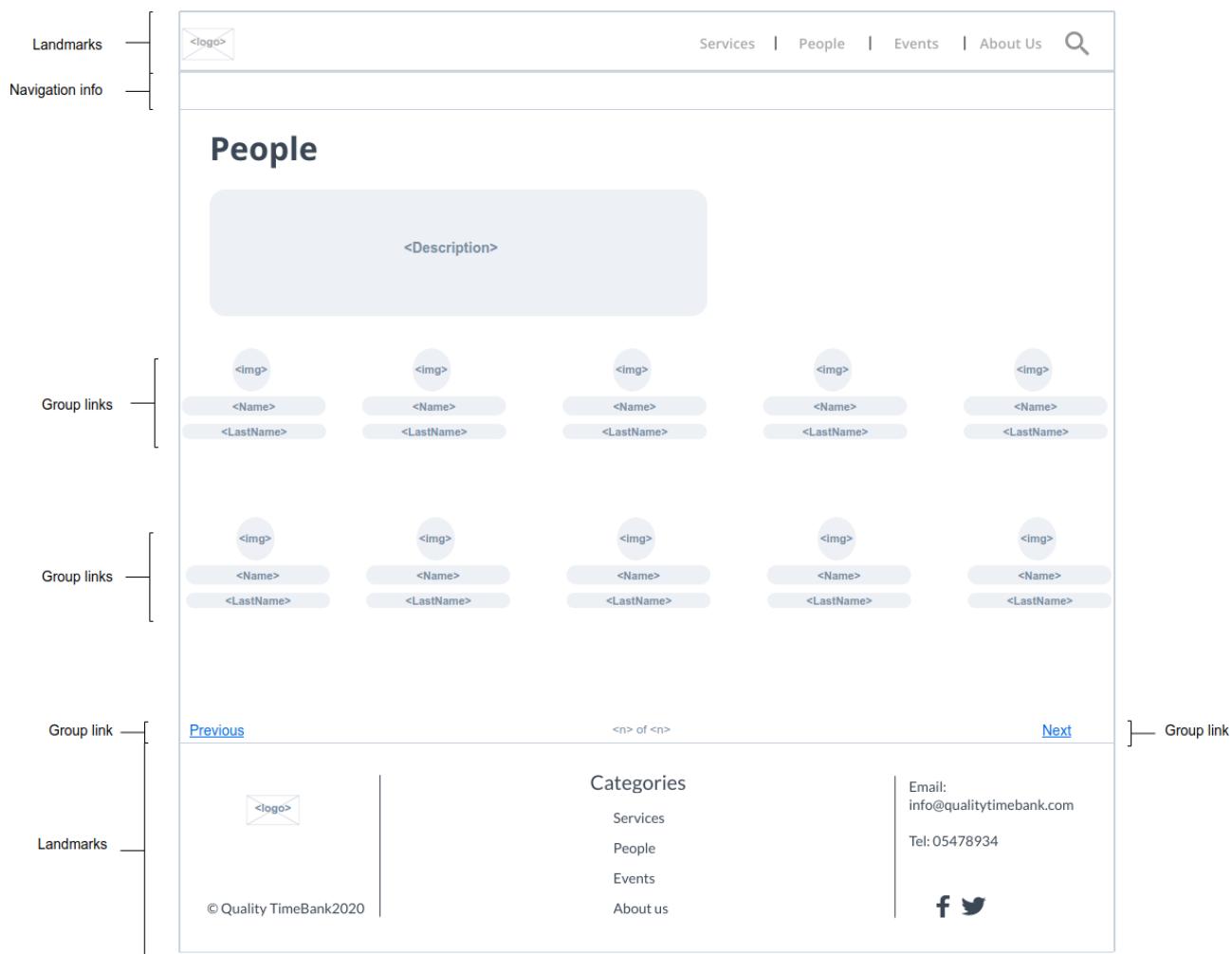


Figure 4.11: Wireframe

Group links

Landmarks

Content From
Introductory Dialogue Act

Alessandro Nichelini

Anthony Stark

Bruce Banner

Carol Danvers

Fabio Codiglioni

Luca dell'Oglio

Jane Foster

Steve Rogers

Natasha Romanoff

Wanda Maximoff

1 of 3

Next

Categories

Services

People

Events

About us

Email:
info@qualitytimebank.com

Tel: 05478934

f t

Group link

Landmarks

Figure 4.12: Mockup

4.7 Introductory page: Services

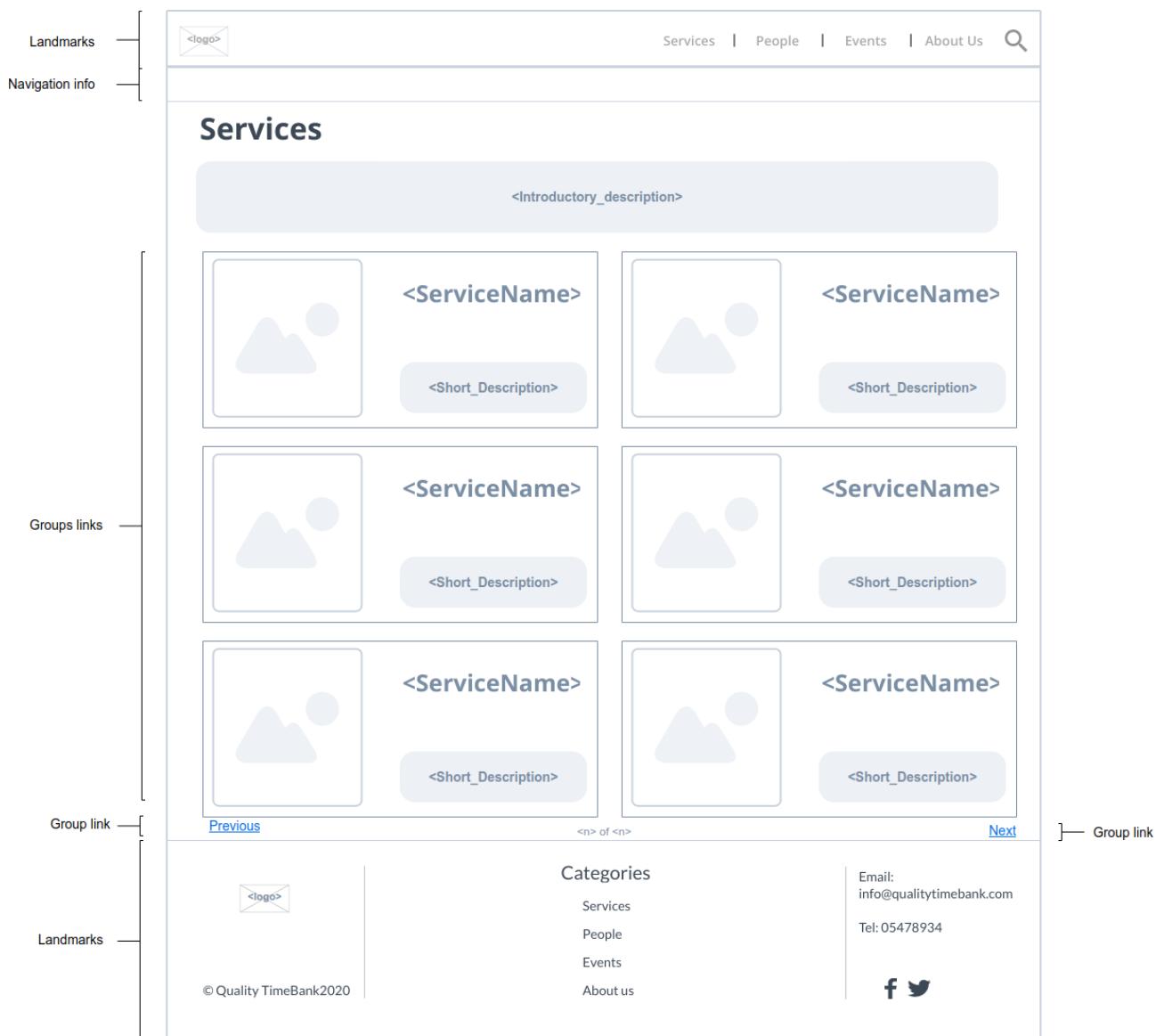


Figure 4.13: Wireframe

Landmarks

Content From Introductory Dialogue Act

Content From Content Dialogue Act

Groups links

Landmarks

Figure 4.14: Mockup

4.8 Introductory page: Events

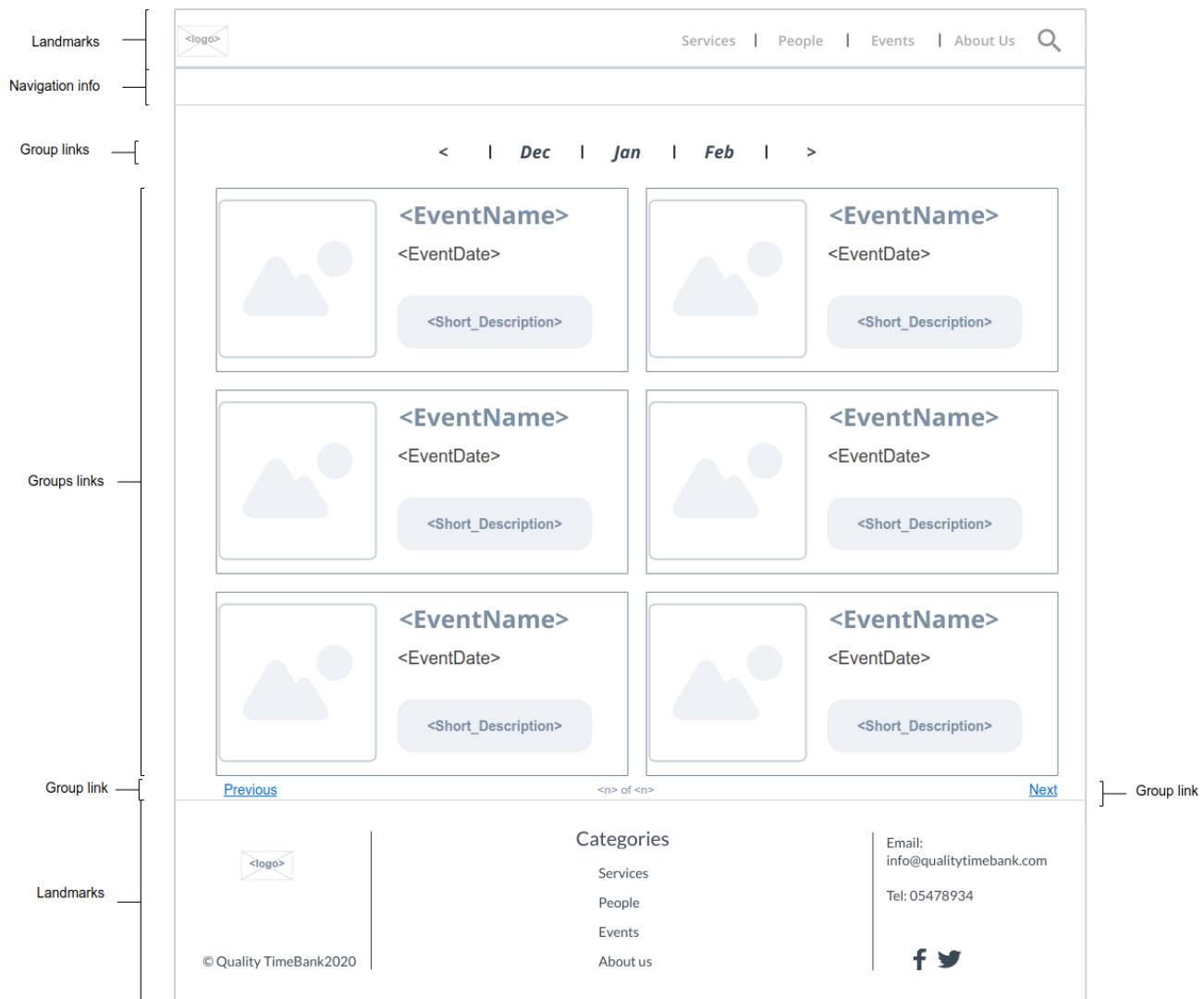


Figure 4.15: Wireframe

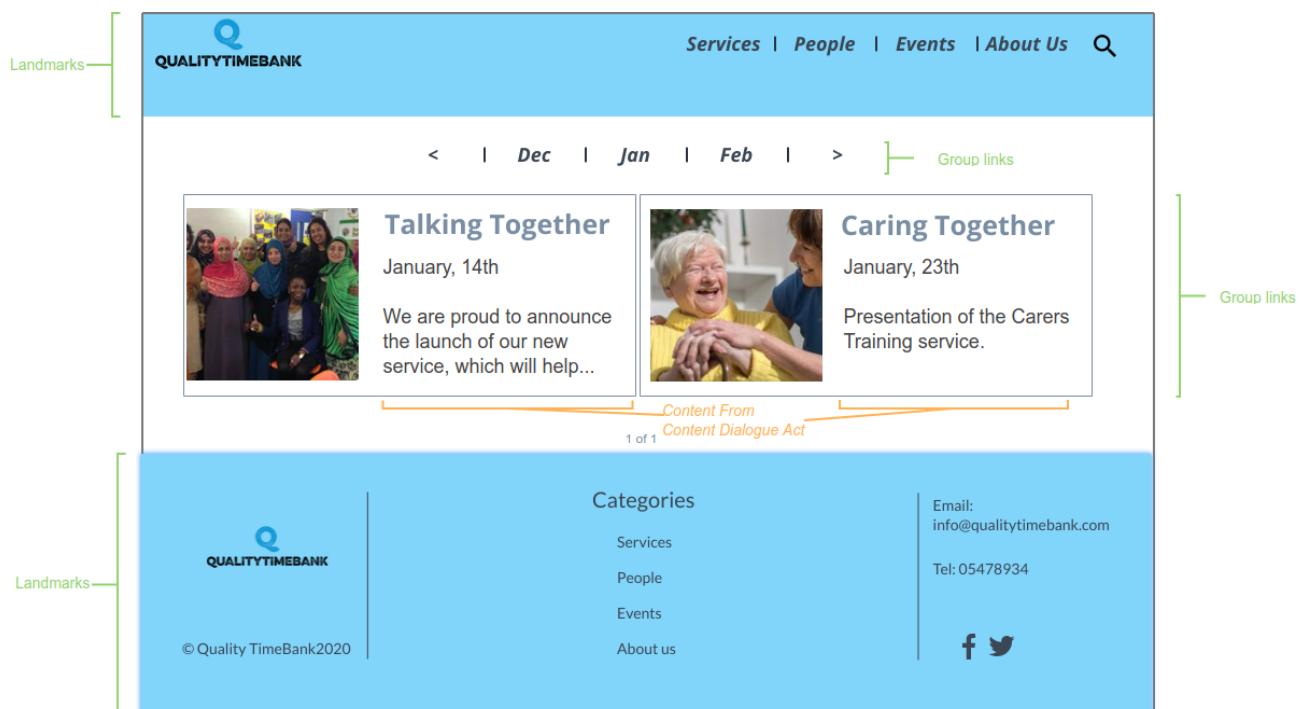
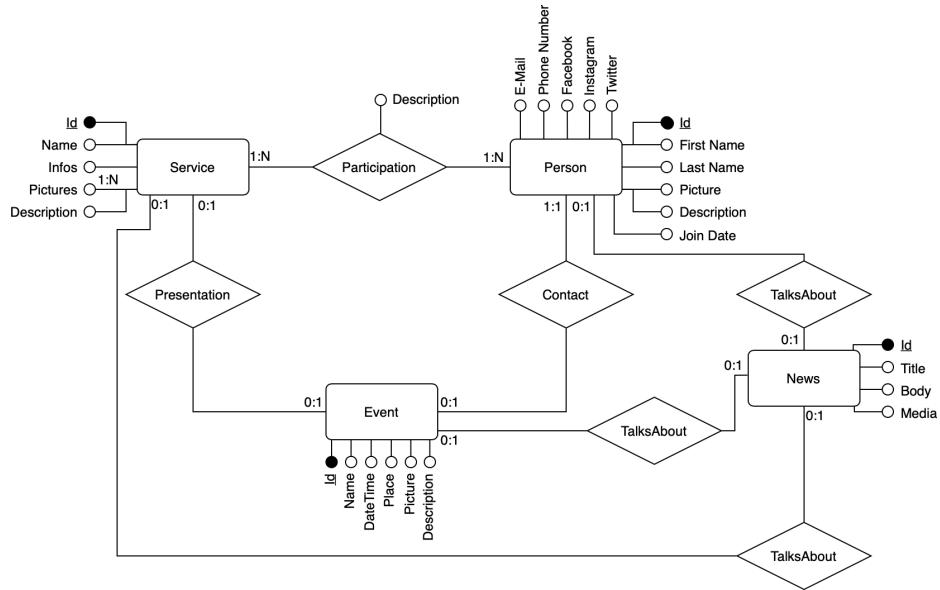


Figure 4.16: Mockup

5 Database design

5.1 ER



5.2 Relational tables

