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| Progetto di  MODULO 2: Laboratorio di Sistemi Informativi  Anno Accademico 2023-2024 | |
| Sistema Informativo  Consorzio Autolinee Di Cosenza | |
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1. Introduzione

Il Consorzio Autolinee che conosciamo ora ha origine nei primi anni '50 quando sono state unite molte concessionarie di autolinee nell’organizzazione provinciale dell'ANAC. A seguito dell'apertura nel 1961 dell'autostazione di Cosenza e l'aumento dei costi del canone di pedaggio e dei numerosi servizi abusivi, ciò causò un aumento dell'adesione delle concessionarie all'attività associativa. Da tale esperienza ebbe a crearsi nello stesso periodo un consorzio volontario tra concessionarie di autolinee che mirava a coordinare gli acquisti dei materiali di consumo come: carburanti, lubrificanti, ricambi pneumatici ecc. Oltre all'attività principalmente economica, il consorzio ha provveduto ai vari servizi amministrativi e a un'attività di equilibrio nei rapporti concessionari tra i soci. La prima autolinea esercitata è stata la stagionale Cosenza-Falerna spiaggia, via autostrada, con una corsa domenicale nel mese di agosto. Dal 1973 la società Consorzio Autolinee iniziava la propria attività di gestione servizi pubblici riguardanti i collegamenti con Cosenza di Arcavacata Università, Rende, Castrolibero, Marano Marchesato e Marano Principato.

La sede legale e la biglietteria sono ubicate in PIAZZA DELLA PROVINCIA 30. La biglietteria è aperta da lunedì a venerdì, dalle ore 07.45 alle ore 14.00, e dalle ore 15.00 alle ore 18.00; il sabato dalle ore 7.45 alle ore 14.

Il Consorzio Autolinee TPL pone molta attenzione nel rapporto con gli utenti al fine di migliorare la qualità dei servizi offerti. Proprio per questa ragione mette a disposizione dei questionari e dei moduli che gli utenti potranno utilizzare per dare dei suggerimenti e per conoscere meglio l’azienda e per richiedere un rimborso. È prevista la raccolta per tipo di servizi TPL riguardo i reclami e/o i suggerimenti dell’utenza. Detti reclami e/o suggerimenti vengono sottoposti alla Direzione aziendale che attiva il personale preposto per approfondire o chiarire la problematica posta, accertarne le cause e apportarne le dovute azioni correttive.

I servizi eserciti dalla Società Consorzio Autolinee sono indirizzati al fine di una migliore riorganizzazione e razionalizzazione dei servizi suburbani ed extraurbani, nonché di un più efficiente coordinamento dei medesimi servizi nell’ambito territoriale della provincia di Cosenza, in coerenza alle più recenti disposizioni normative in materia di trasporto pubblico locale.

Il profilo dei clienti del Consorzio Autolinee s.r.l. di Cosenza può essere suddiviso in varie categorie, che dipendono dalle caratteristiche di coloro che usufruiscono del servizio:

* **Età**: gli utenti comprendono una varia gamma di età, ma i giovani adulti, gli anziani e soprattutto gli studenti universitari costituiscono una quota significativa degli utilizzatori. Gli studenti spesso usufruiscono del servizio per gli spostamenti tra casa e scuola o università, mentre gli anziani lo preferiscono per viaggi ricreativi o per motivi di accessibilità;
* **Livello di reddito**: gli utenti sono spesso caratterizzati da un reddito medio o basso, poiché le tariffe del servizio tendono ad essere più economiche rispetto ad altri mezzi di trasporto, il che le rende una scelta accessibile per molte persone;
* **Residenza**: le persone che vivono in aree rurali o suburbane sono più inclini a utilizzare i pullman per raggiungere destinazioni urbane o altre località distanti;
* **Flessibilità**: le persone che usufruiscono del servizio sono spesso disposte a sacrificare una certa flessibilità negli orari di partenza e arrivo in cambio di tariffe più basse. Questa flessibilità può essere dovuta a limitazioni finanziarie o alla mancanza di mezzi di trasporto alternativi;

L’area di mercato in cui opera l’azienda può essere classificata in:

* **Geografica**: l'area di mercato del Consorzio Autolinee di Cosenza copre la città di Cosenza e le aree circostanti, includendo le rotte urbane all'interno della città, i collegamenti con le città vicine e i collegamenti interregionali;
* **Demografica**: l'area di mercato può essere suddivisa in base a fattori demografici come l'età, il reddito, l'occupazione e il tipo di utenza (ad esempio, studenti, lavoratori, anziani);
* **Segmentazione**: è possibile suddividere l'area di mercato in segmenti in base alle esigenze di trasporto specifiche, ad esempio, turismo, pendolarismo, viaggi di lavoro;

Il target di mercato dell’azienda occupa le seguenti posizioni:

* Servizio trasporto che include tutti i residenti e i pendolari della zona.
* Servizio di noleggio autobus o altri servizi su prenotazione, per cui il target di mercato include aziende, scuole, gruppi turistici, e altri clienti specifici.

Il target di mercato potrebbe anche essere influenzato dalla concorrenza locale, dalle esigenze del trasporto pubblico e dalla strategia aziendale.

Il sistema informativo supporterà le seguenti funzionalità:

1. **Gestione delle corse**

* Il sistema terrà traccia di tutte le fermate che un pullman farà nella corsa stabilita;
* Il sistema permetterà di tenere traccia di tutte le corse che l’azienda offre;
* Il prezzo, la giornata, l’ora di partenza e arrivo, l’autista potranno essere salvati attraverso il sistema informativo;

1. **Gestione dei pullman**

* Per ogni pullman il sistema terra traccia della targa, dell’assicurazione, della revisione;
* Potranno essere gestiti pullman di dimensioni diverse: con bagagli, senza bagagli, a uno o più piani, la capienza;
* Il sistema consentirà di visualizzare e gestire quali pullman sono stati affittati verso terzi e quali sono adibiti per trasporto pubblico;
* Il sistema permetterà di gestire le operazioni di manutenzione, sanificazione degli automezzi;

1. **Gestione degli autisti**

* Il sistema terra traccia di ogni informazione riguardo un autista, codice fiscale, nome, età;
* Per ogni autista il sistema terra traccia del contratto che egli ha stipulato con l’azienda;
* Il sistema gestirà le buste paghe di ogni autista;

1. **Gestione dei biglietti**

* Il sistema consentirà di svolgere le operazioni di aggiunta, modifica, rimozione biglietti;
* Il sistema gestirà anche eventuali rimborsi e richieste di rimborso;
* Il sistema si occuperà della gestione di eventuali biglietti a prezzo ridotto con bonus;

1. **Gestione deposito**

* Si potranno gestire capienza dei luoghi adibiti alla sosta a lungo termine degli automezzi di proprietà dell’azienda;
* Il sistema terra traccia dell’ora di sosta di ogni automezzo e delle giornate in cui un determinato automezzo è in sosta;

I benefici che porterà l’implementazione del sistema informativo saranno:

1. **Gestione delle corse**:

* Tracciabilità accurata delle fermate: Il sistema consentirà di registrare e monitorare con precisione tutte le fermate lungo le corse, migliorando la precisione nella registrazione dei dati e garantendo una maggiore puntualità dei servizi;
* **Pianificazione efficiente delle corse**: La pianificazione delle corse sarà semplificata, evitando sovrapposizioni o carenze nella programmazione. Questo ridurrà i tempi morti dei veicoli e l'uso inefficiente delle risorse;
* **Miglioramento dell'esperienza del cliente**: I dettagli sul prezzo, l'orario di partenza e arrivo, e l'autista saranno facilmente accessibili, consentendo ai clienti di effettuare prenotazioni informate e migliorando la loro fiducia nell'azienda;

1. **Gestione dei pullman**:

* **Ottimizzazione dell'allocazione dei veicoli**: Il sistema permetterà di assegnare in modo efficiente i veicoli alle corse in base alle caratteristiche specifiche dei pullman, come la presenza di bagagli, il numero di piani, la capienza e lo stato di manutenzione. Ciò ridurrà i costi operativi;
* **Controllo sulla manutenzione e la revisione**: La registrazione dei dati relativi all'assicurazione, alla revisione e alla manutenzione contribuirà a garantire che tutti i veicoli siano in regola con le normative, migliorando la sicurezza stradale;
* **Gestione degli affitti a terzi**: Il sistema consentirà di tenere traccia dei veicoli affittati a terzi e di quelli utilizzati per il trasporto pubblico, facilitando la fatturazione e la gestione dei contratti di noleggio;

1. **Gestione degli autisti**:

* **Miglioramento della gestione del personale**: Il sistema terrà traccia delle informazioni degli autisti, inclusi i dati personali e i contratti stipulati, semplificando la gestione del personale e garantendo la conformità alle leggi sul lavoro;
* **Pianificazione delle buste paga**: La gestione delle buste paga degli autisti sarà automatizzata, riducendo gli errori e semplificando il processo di pagamento, migliorando così la soddisfazione degli autisti;

1. **Gestione dei bigliett**i:

* Efficienza nella gestione dei biglietti: Il sistema semplificherà l'aggiunta, la modifica e la rimozione dei biglietti, accelerando il processo e riducendo il rischio di errori;
* **Miglioramento del servizio al cliente**: La gestione dei rimborsi e delle richieste di rimborso sarà più efficiente, garantendo una risposta rapida alle esigenze dei clienti e migliorando la loro soddisfazione;

1. **Gestione del deposito**:

* **Ottimizzazione dello spazio**: La gestione della capienza del deposito aiuterà a ottimizzare l'uso degli spazi di parcheggio, riducendo gli sprechi di spazio e garantendo una migliore organizzazione del deposito;
* **Sicurezza dei veicoli**: Tenere traccia dell'ora di sosta dei veicoli e delle giornate in cui sono in sosta contribuirà a garantire la sicurezza dei veicoli e la prevenzione di furti o danni;

1. 1. Analisi dei requisiti
   1. 1.1. Analisi dello scenario

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Logistica in entrata (LE) | Attività operative (AO) | Logistica in uscita (LU) | Marketing e vendita (MV) | Servizi post-vendita (SPV) |
| |  | | --- | | LE1: Acquisto automezzi dai fornitori | | LE2: Gestione reso verso fornitori | | LE3: Gestione delle infrastrutture di parcheggio e stoccaggio dei veicoli | | LE4: Controllo scorte | | LE5: Stoccagio in magazzino | | |  | | --- | | AO1: Manutenzione torpedoni | | AO2: Collaudo torpedoni | | AO3: Gestione impianti | | AO4: Gestione contabilità | | AO5: Aggiornamento catalogo corse | | AO6: Pulizia torpedoni | | |  | | --- | | LU1: Organizzazione e pianificazione delle fermate e delle destinazioni | | LU2: Gestione delle strutture di attesa e di scarico dei passeggeri | | LU3: Coordinamento delle operazioni di entrata e uscita dei passeggeri | | |  | | --- | | MV1: Studio delle promozioni | | MV2: Gestione promozioni | | MV3: Gestione pubblicità | | MV4: Gestione clientela | | MV5: Gestione mezzi di vendita | | MV6: Gestione prezzi servizi offerti | | MV7: Gestione sito web | | |  | | --- | | SPV1: Gestione reclamo | | SPV2: Gestione reso da cliente | | SPV3: Gestione recensioni | | SPV4: Customer Care | | SPV5: Monitoraggio del feedback dei passeggeri e implementazione di miglioramenti. | |
| Approvvigionamenti (AP) | | | | |
| AP1: Acquisto di pneumatici, carburante, pezzi di ricambio  AP2: Acquisto computer, registratori di cassa, lettori codici a barre, sistemi software gestionali | | | | |
| Gestione risorse umane (GRU) | | | | |
| GRU1: Gestione turni dipendenti  GRU2: Gestione ferie  GRU3: Valutazione dipendenti  GRU4: Ricerca e assunzione personale  GRU5: Addestramento personale  GRU6: Monitoraggio turni dei dipendenti | | | | |
| Sviluppo tecnologie (ST) | | | | |
| ST1: Implementazione di sistemi di tracciamento dei veicoli e di gestione delle flotte  ST2: Utilizzo di app o piattaforme digitali per prenotazioni e pagamento dei servizi | | | | |
| Gestione infrastrutture (GI) | | | | |
| GI1: Gestione rapporto con commercialista  GI2: Gestione rapporto con lo studio legale  GI3: Rapporto con gli enti pubblici  GI4: Manutenzione e gestione delle stazioni di partenza e arrivo  GI5: Mantenimento e aggiornamento delle infrastrutture, come pensiline e banchine di attesa | | | | |

**1.1.1 Gestione Acquisto pneumatici, carburante e pezzi di ricambio**

**Nome processo** (identificativo): Gestione acquisto pneumatici, carburante, pezzi di ricambio(AP1)

**Attori coinvolti:** Titolare/Socio, Fornitore, Addetto al magazzino

**Archivi coinvolti:** Scorte, Prodotti da ordinare, Ordini, Rubrica dei fornitori, DDT(o bolle)

**Descrizione del processo:** Si occupa dell’acquisto di pneumatici, carburante e pezzi di ricambio il **titolare** e, in sua assenza uno dei **soci**. Periodicamente, o quando le scorte di pneumatici, carburante e pezzi di ricambio scendono ad un livello critico, il titolare (o i soci), controlla le quantità di ciascun tipo di prodotto per identificare la merce mancante da dover acquistare.

Quindi stila una lista di prodotti da ordinare presso uno dei fornitori selezionati.

Per ogni merce(pneumatici, carburante e pezzi di ricambio), individua uno o più fornitori da cui rifornirsi, da una rubrica dei fornitori, anche sulla base dei precedenti ordini effettuati e dei relativi prezzi e sconti. Fatto ciò, il **titolare** o uno dei **soci**, contatta telefonicamente un fornitore, generalmente il primo della lista, per ordinare uno o più prodotti. Nel caso in cui la merce non è disponibile presso il fornitore contattato, si procede a contattarne un altro, seguendo un ordine di preferenza. Dopo essersi accordati sulle quantità da ordinare, sul prezzo, sul metodo di pagamento e sui tempi di consegna, viene effettuato l’ordine. Al momento della consegna della merce, un **addetto al magazzino** controlla se l’ordine corrisponde con quanto ordinato e quanto presente nel Documento di Trasporto(DDT) e si occupa dello scarico. Nel caso in cui la merce consegnata non sia conforme con l’ordine effettuato, viene effettuato un reso.( si veda processo LE2: gestione reso verso fornitori).

**L’addetto al magazzino** si occuperà di sistemare la merce (processo LE5) e che tutte le bolle vengono correttamente registrate. I fornitori inoltre, emettono la fattura che verrà saldata dal **titolare** o dal **socio**, tipicamente a 30 giorni dalla consegna, sebbene ci siano delle eccezioni sui tempi di pagamento in caso di accordi presi con il **fornitore**.

**Altri processi correlati:**

LE1, LE2, SPV1.

**Considerazioni riguardo lo scenario futuro:**

In seguito all’implementazione del sistema informativo, la gestione degli archivi coinvolti sarà facilitata grazie alla digitalizzazione di essi

**![A diagram of a project

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/9sAhAABAQEBAQECAQECAwICAgMEAwMDAwQFBAQEBAQFBgUFBQUFBQYGBgYGBgYGBwcHBwcHCAgICAgJCQkJCQkJCQkJAQEBAQICAgQCAgQJBgUGCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQkJCQn/3QAEADT/wAARCAOLAzQDASIAAhEBAxEB/8QBogAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoLEAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+foBAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKCxEAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9hP8Agop+zH8Av2uv+C9f7PPwa/aV8LWXjHwvN8MvFN2+m6grNAZoLmMxvhSpyp6c197f8OCP+CNv/RvfhT/vzL/8dr8r/wDgrh+3V8If+CfX/Bcb4AfH/wCNGma7qmjWPw08RWjw6BY/bbove3apGVjZ4lZQYzvw+VGCRyK9R/4iy/8AgnH/ANCR8Vf/AAmY/wD5NoA+/wD/AIcEf8Ebf+je/Cn/AH5l/wDjtH/Dgj/gjb/0b34U/wC/Mv8A8dr4A/4iy/8AgnH/ANCR8Vf/AAmY/wD5No/4iy/+Ccf/AEJHxV/8JmP/AOTaAPv/AP4cEf8ABG3/AKN78Kf9+Zf/AI7R/wAOCP8Agjb/ANG9+FP+/Mv/AMdr4A/4iy/+Ccf/AEJHxV/8JmP/AOTaP+Isv/gnH/0JHxV/8JmP/wCTaAPv/wD4cEf8Ebf+je/Cn/fmX/47R/w4I/4I2/8ARvfhT/vzL/8AHa+AP+Isv/gnH/0JHxV/8JmP/wCTaP8AiLL/AOCcf/QkfFX/AMJmP/5NoA+//wDhwR/wRt/6N78Kf9+Zf/jtH/Dgj/gjb/0b34U/78y//Ha+AP8AiLL/AOCcf/QkfFX/AMJmP/5No/4iy/8AgnH/ANCR8Vf/AAmY/wD5NoA+/wD/AIcEf8Ebf+je/Cn/AH5l/wDjtH/Dgj/gjb/0b34U/wC/Mv8A8dr4A/4iy/8AgnH/ANCR8Vf/AAmY/wD5No/4iy/+Ccf/AEJHxV/8JmP/AOTaAPv/AP4cEf8ABG3/AKN78Kf9+Zf/AI7X5EfCX/gi78Btd/bu8U/sueOvht8DbrQvA2geF/FF/c2HgLXbS71C11691a2ls4Gl8ZXMdpLEmlEpcNHcLumGYMR4f3j/AIiy/wDgnH/0JHxV/wDCZj/+Ta8H8O/8HIv/AASu8M/tI+K/2orDwj8Yn1/xhoGi+Hby3fw5bmzjtdCuNRuLZ4UFwJFld9TmEpaRlKrHtVCGLAHmvwL+DP8AwRV8TaJDr/xZ/ZJ0eHwlpnwb0P4t6v45traCzsBa6rFqDsg0Z9WvL6AFtPeKCOOa8lactGwWNY7ifuPjR+xr/wAEh5vg5r8vgL9lKx+HPxB8LeKvhvZajoXjDT7f7WNG8Z+KLDSlukWx1G9t2jubZ7yJD53mQzRMJER0xXxlof8AwVO/4Ip6D4B074UQaJ8eJ/DMPwut/hFqmnz6BprprGgWK3IsZLuQYlivbR7yeWKeze2G9/mRlVVHU2X/AAWO/wCCTmo6D4kg+LEv7QnjvxD4q1LwhfX3iPWPD2jpqXkeBtVi1jRrCMWMVpaJardRu0+LfzZfPmYyB2VkAP0D8f8A7Jn/AAQH+E/jr4m/D/4nfspw6Je/DHwb4g8eymW3sZhquh+GnRL6fT47bVpZkbMsXkpfR2ZlWRWX5QxXhvjd8Dv+DeX9nLwL4W8b/Gv9lRfDj+K9O1TXoNLv7WwttRt9C0jyPtGqT282roRGVuYTFZxl9Sk3FVsy8ciJ+X8X/BQf/gi3BqfjOe3f9oiOw8b+H/G/he8sV8O6CEj0vx/ILnVo0n+zfapZUulS4t7i6mnmQxpG7yQAxH60/aH/AOC5v/BJ/wCPvjLwb8UbDTPjf4M8XeB9NutFstZ0fwro11LNpd6YGuLO5ttYTUbKVGe2ilRvs4kikXKMoZ1YA/S3x/8A8Ej/APgk5F+0N4O+DPwe/Zt8D69DqnhfWvFupu8c4JtLP7LbaZBbzLcCOJ7+7uspJIkieTbTfKDhh+f/AOyh+yP/AMEitQ/Z28S/Gz9qf4M+AdV8U6Pe6Dot98OvDnhXUtG8UaD4k1qcWcehXFtqmszm9ee6mhisrsLaW8qpLNuMXMV3wF/wcd/sAaB8YviT8V/EWi/Fh7rxZpWjeG9HubXwxAl3YaTpFrMysc3HkC5bUL++n+SLy9phBX5dq/Neof8ABXT/AIJO+MV8S+JvjBe/tC+MfHPiCDw9b2/jC88N6Fa6rpQ8KajJq2jvYJp8FrYiW3vZGmaSe0mM2SkmYT5VAH6B6T+y/wD8EHvEviCD4VeDv2N7vWPih9s1Wzv/AADbWWnDW9M/sVLCW8mvZZtZj0qOARanYvFKuoMs4uEEPmNlRo+Jf2Hv+CJvw++Kfjr4Xal+zDpXjHxDpvjnT/Bfh3wz4d0pIdUu7q58K2XiWZPPvtZjs5lhtpZ55bqR7GKJAISjuqyz/m1Yf8Faf+CVfh/xVafGLwZrn7R2h/FP7fq17qvju08N+Hzq+sLrUVhBd2t9bz2kultbLFpditvHHYx/Z/s0ZjIO8v6P8Qf+C03/AASW8Z+Otc+L3h23+PfhXxxq3i+z8bWviDTPDmkvdabqdr4cg8LOlrHeLc2zW1zpsG24huYZwzyM6lMRCMA/aT9nL/gkP/wQz/ae+EGmfGf4d/s7+H7fT9Qku7WS01C0khvLO80+5lsr2zuYlndUntrqCWGRVZlDIdrMuCfb/wDhwR/wRt/6N78Kf9+Zf/jtfkX+zb/wcj/8Erf2XPg7pvwX8A+D/jDe2dhLeXc19qPh2CW9vr3UbqW+vby6kjuYo2nubqeWaQpGibmIVVUBR7r/AMRZf/BOP/oSPir/AOEzH/8AJtAH3/8A8OCP+CNv/RvfhT/vzL/8do/4cEf8Ebf+je/Cn/fmX/47XwB/xFl/8E4/+hI+Kv8A4TMf/wAm0f8AEWX/AME4/wDoSPir/wCEzH/8m0Aff/8Aw4I/4I2/9G9+FP8AvzL/APHaP+HBH/BG3/o3vwp/35l/+O18Af8AEWX/AME4/wDoSPir/wCEzH/8m0f8RZf/AATj/wChI+Kv/hMx/wDybQB9/wD/AA4I/wCCNv8A0b34U/78y/8Ax2j/AIcEf8Ebf+je/Cn/AH5l/wDjtfAH/EWX/wAE4/8AoSPir/4TMf8A8m0f8RZf/BOP/oSPir/4TMf/AMm0Aff/APw4I/4I2/8ARvfhT/vzL/8AHaP+HBH/AARt/wCje/Cn/fmX/wCO18Af8RZf/BOP/oSPir/4TMf/AMm0f8RZf/BOP/oSPir/AOEzH/8AJtAH3/8A8OCP+CNv/RvfhT/vzL/8do/4cEf8Ebf+je/Cn/fmX/47XwB/xFl/8E4/+hI+Kv8A4TMf/wAm0f8AEWX/AME4/wDoSPir/wCEzH/8m0AeJ/8ABdX/AII7f8Exf2cP+CTnxk+NfwN+DHh7w14r0HTrKXT9Ts4pFnt3k1K0hYoTIQMxuy9Ohr7Q/Yo/4Ib/APBJP4g/safCTx740+A/hjUdY1vwXoN/fXcsUvmT3Nzp0Es0r4kA3O7Fjx1NfjR/wWO/4OLv2If2yv8Agmn8Vf2Zvhf4U+IWn694rsLS3s7jWNBS0sUaG/tp286YXT7BtiIHyn5sCvq/9kj/AIOiP+Cfvwi/ZT+GPwo8S+DfibPqPhjwnouk3Ulp4djlt3msrGGCRoZPta74yyEo2BlcHAoA/YP/AIcEf8Ebf+je/Cn/AH5l/wDjtH/Dgj/gjb/0b34U/wC/Mv8A8dr4A/4iy/8AgnH/ANCR8Vf/AAmY/wD5No/4iy/+Ccf/AEJHxV/8JmP/AOTaAPv/AP4cEf8ABG3/AKN78Kf9+Zf/AI7R/wAOCP8Agjb/ANG9+FP+/Mv/AMdr4A/4iy/+Ccf/AEJHxV/8JmP/AOTaP+Isv/gnH/0JHxV/8JmP/wCTaAPv/wD4cEf8Eb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**1.1.2 Gestione Reclamo**

**Nome processo** (identificativo)**:** Gestione reclamo (SPV1)

**Attori coinvolti:** Cliente, Dipartimento del Servizio Clienti, Responsabile Qualità dei Servizi

**Archivi coinvolti**: Registro reclami

**Descrizione del processo:** Il processodi gestionedei reclami è finalizzato a gestire in modo efficiente e soddisfacente le segnalazioni di reclamo da parte dei **clienti** e a migliorare la qualità dei servizi offerti. Il reclamo proviene dal Cliente e viene gestito dal **Dipartimento servizio clienti** (vedi SPV4). Il reclamo viene registrato in un apposito archivio di Registrazione reclami, che include informazioni dettagliate sul reclamo, esso è infatti caratterizzato dalla data, il contenuto, il tipo (feedback o reclamo), lo stato attuale del reclamo, il cliente che lo ha effettuato e un numero progressivo identificativo. Successivamente il **Dipartimento del Servizio Clienti** riceve il reclamo e ne effettua una valutazione iniziale. Si verifica quindi se il reclamo non è valido o se lo è, e quindi ne è richiesta un’azione correttiva. In caso di necessità di un’azione correttiva, il reclamo viene assegnato ad un **Responsabile di Qualità dei Servizi,** che si occuperà di effettuare verifiche. l **Responsabile Qualità** inizia un'indagine dettagliata sul reclamo. Ciò potrebbe richiedere la raccolta di informazioni aggiuntive utili alla risoluzione del reclamo.

Sulla base dell'indagine, si sviluppa un piano di azione per risolvere il reclamo. Questo può includere azioni immediate per affrontare il problema e misure preventive per evitare recidive. Il piano d’azione viene trasmesso al **Dipartimento del Servizio Clienti.**

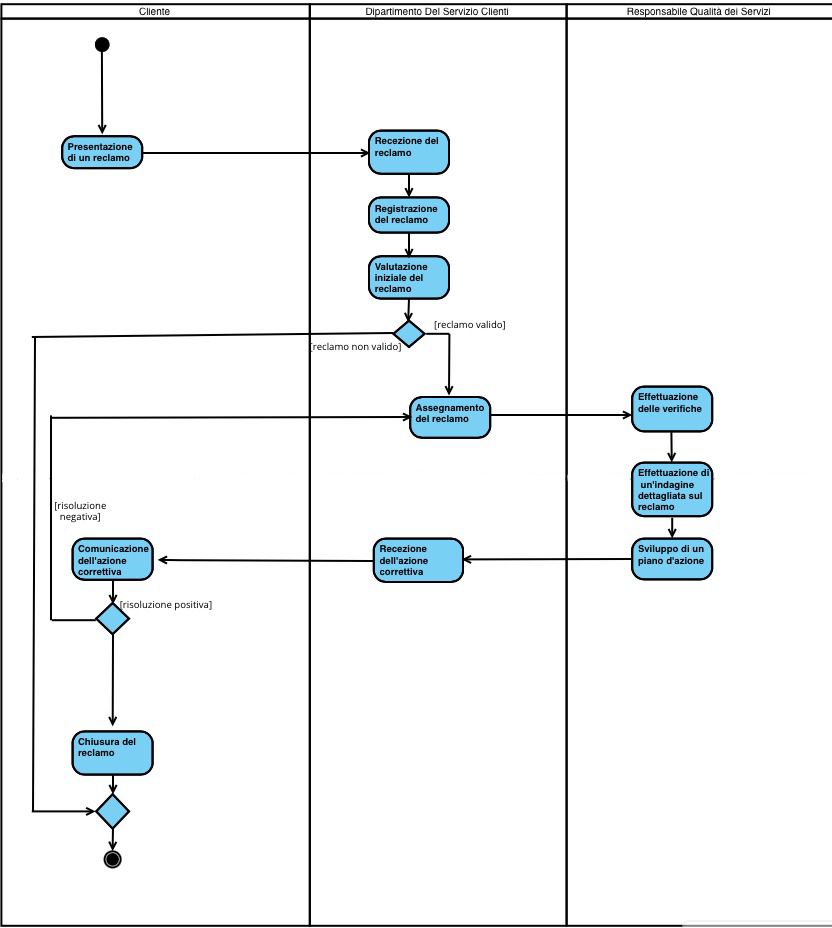
Il **Dipartimento del Servizio Clienti** comunica con il cliente per informarlo dello stato di avanzamento della risoluzione del reclamo. È essenziale mantenere il **cliente** informato e coinvolto nel processo. Una volta completate tutte le azioni necessarie per risolvere il reclamo, il **Dipartimento del Servizio Clienti** verifica con il cliente se il problema è stato risolto in modo soddisfacente. Se il cliente conferma la risoluzione del problema, il reclamo viene considerato chiuso. In caso l’azione correttiva non è di gradimento del cliente viene riassegnata al Responsabile Qualità dei Servizi che reitererà il processo già descritto.

**Altri processi correlati:**

SPV3,SPV4,SPV5

**Considerazioni riguardo allo scenario futuro:**

Il reclamo potrà essere memorizzato in un sistema informativo facilitando la sua gestione.



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**1.1.3 Customer Care**

**Nome processo** (identificativo): Customer Care (SPV4)

**Attori coinvolti:** Cliente, Dipartimento del Customer Care, Manager del Marketing

**Archivi coinvolti:** Registro reclami, Registro Richieste dei clienti

**Descrizione del processo**: Il processo di Customer Care inizia con l’invio di domande o feedback dei **clienti**. Questi possono giungere attraverso vari canali, tra cui telefono, e-mail, chat online, social media, modulo web e in persona presso sportelli aziendali. È importante essere disponibili attraverso tutti questi canali per soddisfare le esigenze dei clienti.

Le domande/feedback vengono registrati accuratamente nel Registro delle richieste dei clienti e i reclami dei clienti nel registro reclami. Per ognuno di essi bisogna memorizzare data, contenuto della richiesta, stato della richiesta, numero progressivo identificativo, tipo (feedback o reclamo) e il cliente che lo ha effettuato. Il **Dipartimento del Customer Care** ascolta attentamente i clienti, dimostrando empatia e comprensione per le loro esigenze, domande o preoccupazioni. L'ascolto attivo è fondamentale per instaurare una relazione di fiducia.

Nel caso in cui un cliente presenti un problema o una reclamazione, il **Customer C**a**re** si adopera per risolverlo in modo efficace (*si veda processo* SPV1: ***g*estione reclamo)**.

Questo può richiedere la collaborazione con altri dipartimenti dell'azienda, come il **Dipartimento della Qualità** o il **Reparto Tecnico.** Se invece viene ricevuto un riscontro questo viene analizzato dal dipartimento.Il **Dipartimento del Customer Care** collabora con il **Dipartimento del Marketing.** Quest’ultimo elabora e promuove nuovi servizi sull’analisi precedentemente svolta. I nuovi servizi vengono trasmessi al **Dipartimento del Customer Care** che si occuperà di notificare i clienti

Il **Customer Care** mantiene i clienti informati su nuovi prodotti, servizi e offerte speciali, derivati grazie all’analisi feedback precedente, o dalla risoluzione effettuata in precedenza. Questa comunicazione può avvenire attraverso e-mail, telefonate o messaggi sui social media.

Il feedback dei clienti viene raccolto, analizzato e utilizzato per migliorare i servizi e i prodotti. Questo processo di analisi dei dati aiuta l'azienda a capire meglio le esigenze dei clienti e a effettuare miglioramenti mirati.

**Altri processi correlati:**

**SPV2, SPV3, SPV5.**

**Considerazioni riguardo allo scenario futuro:**

In seguito all’implementazione del sistema informativo, la memorizzazione di domande o feedback dei clienti, sarà facilitati dalla digitalizzazione. L’inserimento la rimozione o la cancellazione di essi sarà facilitata grazie al sistema.

A diagram of a customer care service

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**1.1.4 Gestione Contabilità**

**Nome processo** (identificativo): Gestione contabilità (AO4)  
**Attori coinvolti**: Titolare/Socio, Contabile, Responsabile Amministrativo, Responsabile Finanziario  
**Archivi coinvolti**: Libro giornale, Libro mastro, Inventario, Documenti Bancari, Documenti Fiscali  
**Descrizione del processo:** Si occupano della gestione della contabilità il **responsabile amministrativo** e **finanziario** con l'aiuto del **titolare**. Ad ogni attività economica gli attori coinvolti registrano sul libro giornale l'apposita transizione finanziaria effettua che sia una vendita, un acquisto, una spesa o un'entrata. Questa registrazione include la data, la descrizione, l'importo, i conti coinvolti (conto di entrata, conto di spesa ecc.), della transazione. A seguito della registrazione nel libro giornale, il **contabile** trasferisce queste informazioni nel libro mastro. Durante questo passaggio le transazioni vengono classificate in conti specifici (Conto contante, conto clienti, ecc.), in questo modo si ha una visione strutturale della situazione economica finanziaria dell'azienda. Il **contabile** elabora quindi i documenti fiscali per adempiere agli obblighi finanziari verso terzi. Vengono dunque compilate le fatture e le ricevute con le informazioni fiscali richieste. Per ogni fattura/ricevuta viene memorizzata la data di emissione, le informazioni sull'IVA, la descrizione dell'oggetto della transazione, il numero univoco progressivo di fattura, i dati del mittente, del destinatario e il totale. Vengono registrati, in correlazione all'acquisto e la vendita di beni, essi nell'inventario. I beni sono caratterizzati da un numero progressivo identificativo e da una descrizione di essi. Tutti i documenti contabili vengono archiviati in modo accurato e sicuro. Questa pratica è essenziale per futuri riferimenti e per scopi di audit. Il contabile deve garantire che tutte le attività siano condotte in conformità con le leggi fiscali e le normative contabili applicabili.

**Altri processi correlati:**   
LE1, LE2, MV5, MV6, SPV2

**Considerazioni riguardo allo scenario futuro:**  
Le attività di registrazione delle transizioni, generazione di statistiche e report finanziari saranno automatizzati riducendo il carico di lavoro manuale e minimizzare il rischio di errori. Viene ridotto il rischio di errori di registrazione e calcolo. Le transazioni vengono elaborate in modo accurato e i calcoli sono effettuati in modo preciso, migliorando l'affidabilità dei dati contabili.

**A diagram of a process

Description automatically generated**

**1.1.5 Aggiornamento Catalogo Corse**

**Nome processo (identificativo):** Aggiornamento catalogo corse (AO5)  
**Attori coinvolti:** Manager reparto corse, Manager Marketing  
**Archivi coinvolti:** Elenco corse, Registri viaggio, Sondaggi passeggeri  
**Descrizione del processo:** Il **manager del reparto corse**, si occupa della raccolta di dati sulle attuali corse e sulle esigenze dei passeggeri. Questi dati possono provenire da fonti come registri di viaggio, sondaggi di soddisfazione dei passeggeri, analisi del traffico e dati sulle condizioni stradali. Una volta raccolti i dati, vengono analizzati per verificare se sia il caso di apportare modifiche alle corse. Queste possono includere l'aggiunta di nuove rotte, o modifica delle rotte esistenti. Per ogni rotta aggiunta viene indicato l'identificativo della corsa, le fermate, la data della corsa, gli orari di partenza e arrivo alle relative fermate, località partenza, località arrivo. Oltre a tenere traccia delle corse l’azienda tiene traccia delle fermate. Le fermate sono caratterizzate da (via, codice identificativo, città) La modifica di una corsa già esistente richiederà la modifica dei valori di queste informazioni già conservati dall'azienda in un apposto documento che contiene l’elenco delle corse. Anche l’aggiunta di una corsa prevede la modifica di questo documento. Una volta aggiunta o modificata una corsa già esistente il **manager del reparto corse** provvederà a informare il **manager del reparto marketing** per la vendita del servizio offerto (Vedi processo MV5, MV6).

**Altri processi correlati:**   
MV5, MV6

**Considerazioni riguardo allo scenario futuro:**   
Le corse potranno essere aggiunte in maniera automatizzata, monitorate in tempo reale riducendo le dipendenze dalle operazioni manuali diminuendo la probabilità di errore.

A diagram of a software company

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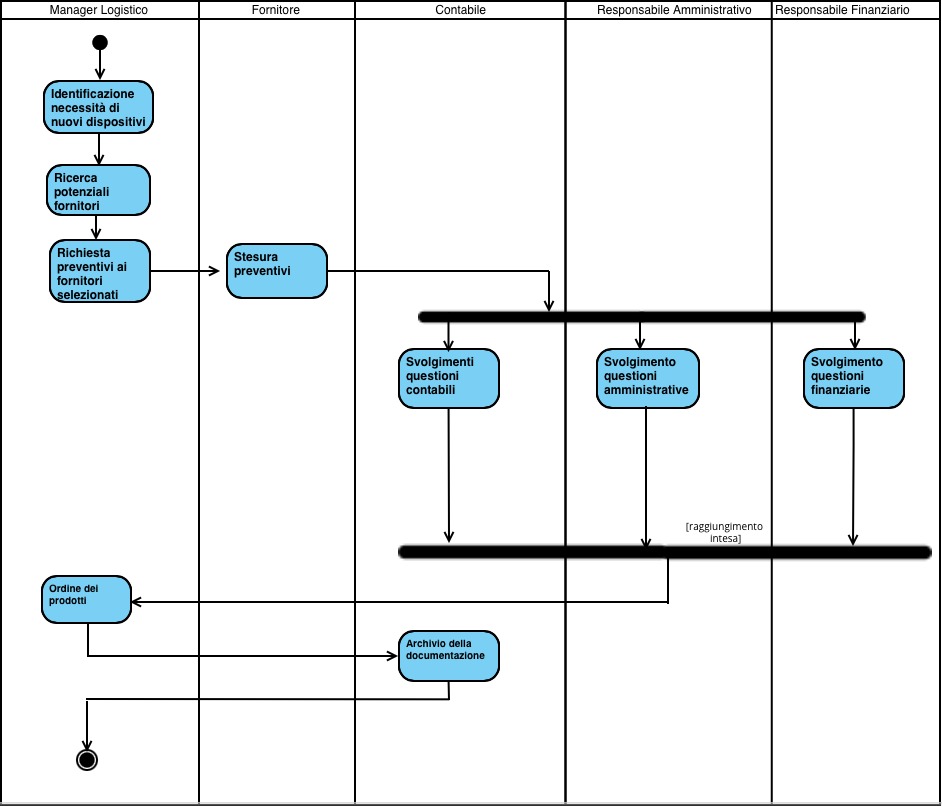
**1.1.6 Acquisto computer, registratori di cassa, lettori codici a barre, sistemi software gestionali**

**Nome processo (identificativo):** Acquisto computer, registratori di cassa, lettori codici a barre, sistemi software gestionali (AP2)  
**Attori coinvolti:** Manager Logistico, Fornitore, Contabile, Responsabile Amministrativo, Responsabile Finanziario  
**Archivi coinvolti:** Rubrica Fornitori  
**Descrizione del processo:** Il **manager logistico** identifica la necessità di nuovi computer, registratori di cassa, lettori codici a barre e/o sistemi software gestionali. Questa identificazione può derivare da diversi fattori, come l'obsolescenza di hardware o software esistenti, l'espansione dell'azienda, l'implementazione di nuovi processi o il miglioramento delle prestazioni. Si cercano potenziali **fornitori** che possano soddisfare i requisiti della richiesta consultando la rubrica dei fornitori. Il prodotto di cui si ha necessita è caratterizzato dal tipo (computer, registratore ecc.), il dipartimento che lo richiede, la quantità di cui si necessita. Vengono richiesti preventivi ai fornitori selezionati. Questi preventivi devono includere i dettagli dei prodotti richiesti, i costi associati e le condizioni di fornitura. Delle questioni contabili si occuperanno il **contabile** e i **responsabili amministrativo e finanziario** (vedi AO4). Una volta raggiunta un'intesa, il manager logistico procede all'ordinazione dei prodotti richiesti. I computer vengono configurati e installati, i registratori di cassa e i lettori di codici a barre vengono integrati con i sistemi esistenti e i software gestionali vengono installati e configurati. Tutta la documentazione relativa all'acquisto, inclusi contratti, fatture e garanzie, viene archiviata in modo sicuro per future referenze dal **reparto contabile** in seguito all’ordinazione dei prodotti. (Vedi processo AO4 per la questione contabile, archiviazione inclusa)

**Altri processi correlati:**   
AO4, GRU5

**Considerazioni riguardo lo scenario futuro:**

SI ridurrà il numero di errori causati dall’uso di sistemi ancora non elettronici all’interno dell’azienda. La memorizzazione della documentazione relativa all’acquisto potrà essere facilitata grazie all’utilizzato del sistema informativo. Inserimenti aggiornamenti rimozioni potranno essere svolte attraverso l’uso di sistemi informatici aumentando la chiarezza, l’ordine, delle informazioni relative alla documentazione



**1.1.7 Gestione Turni Dipendenti**

**Nome processo** (identificativo): Gestione turni dipendenti (GRU1)

**Attori coinvolti**: Titolare/Socio, Risorse Umane, Dipendenti

**Archivi coinvolti**: Documento dei turni, elenco dipendenti.

**Descrizione del processo**: Il **titolare** e i suoi **soci** incaricano gli **addetti delle risorse umane,** attraverso una richiesta (delega) ufficiale**,** di pianificare i turni dei **dipendenti.**  Il **Dipartimento delle risorse umane** dopo un'attenta raccolta di informazioni, dal documento contenente tutti i dipendenti dell’azienda, e dopo aver analizzato le esigenze (eventuali coperture di un turno per coprire eventuali malattie e/o ferie dei dipendenti), creano una prima bozza dei turni dei dipendenti. Un dipendente è caratterizzato dal codice fiscale, il nome, cognome, data di nascita, mansione svolta all’interno dell’azienda, dipartimento di cui fa parte, il salario, numero di telefono, e-mail. Un turno è caratterizzato da un dipendente, la data, l’orario, la mansione svolta dal dipendente. Una volta abbozzati, il dipartimento richiede che ogni dipendente ne prenda visione. Se i turni soddisfano le esigenze dei dipendenti i turni vengono ufficializzati e registrati nell’apposito documento dei turni, altrimenti si reitera il processo partendo dalla stesura della bozza iniziale dei turni. Una volta che i turni sono stati creati, l'azienda deve monitorare costantemente i turni e apportare eventuali modifiche in tempo reale, ciò include la gestione di imprevisti come il traffico, eventuali interruzioni dei servizi e guasti ai pullman. Dopo ogni turno l'azienda dovrebbe generare report per valutare l'efficienza del processo. Questi report possono essere utilizzati per apportare migliorie continue e ottimizzare ulteriormente la pianificazione dei turni. (vedi GRU6)

**Altri processi correlati**:

GRU2, GRU3, GRU4, GRU5, GRU6

**Considerazioni riguardo lo scenario futuro:**

In seguito all’implementazione del sistema, il dipartimento delle risorse umane potrà tenere traccia di tutti i turni, aggiungere e rimuovere turni, in maniera automatizzata, riducendo il numero di errori dovuti alla ricerca delle informazioni su archivi cartacei. Si potranno inserire attraverso un sistema informativo turni e gestirli facilitando il processo di abbozzamento di essi.

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**1.1.8 Ricerca e assunzione personale**

**Nome processo** (identificativo): Ricerca e assunzione personale (GRU4)

**Attori coinvolti**: Titolare/Socio, Risorse umane, candidati

**Archivi coinvolti**: Elenco dipendenti, curriculum dei candidati, elenco requisiti minimi

**Descrizione del processo**: il reparto delle **risorse umane** ricerca di nuovi dipendenti a seguito di una precedente indagine dei posti vacanti e delle mansioni che necessitano nuovo personale. Il dipartimento risorse umano stipula un piano per l'assunzione a breve e/o lungo termine, questo piano dovrebbe tener conto delle esigenze legate alla crescita dell'azienda, alle nuove rotte o ai cambiamenti nella flotta dei veicoli. Dopo aver ottenuto la delega dal **titolare/socio** le **risorse umane** creeranno delle descrizioni dei lavori richiesti, in seguito verrà pubblicizzata la lista delle posizioni disponibili con annunci di lavoro online, agenzie di reclutamento ed altri mezzi in modo da attirare più candidati possibile. Per ogni richiesta di assunzione si verifica se i requisiti minimi sono rispettati; Il requisito minimo di candidatura è caratterizzato dal titolo di studio richiesto. Superata la verifica dei requisiti minimi in seguito, si proseguirà con dei veri e propri colloqui di lavoro. Se e solo se il colloquio ha esito positivo si procederà all'aggiunta del candidato all’elenco dei dipendenti. Del dipendente viene memorizzato codice fiscale, nome, cognome, mansione per il quale è stato assunto, retribuzione.

**Altri processi correlati**:

GRU1, GRU2, GRU3, GRU5

**Considerazioni riguardo lo scenario futuro:**Grazie all’implementazione del sistema informativo l’aggiunta del candidato alla lista dei dipendenti sarà facilitata, l’elenco dei dipendenti infatti sarà digitalizzato. Si potrà quindi prenderne visione in maniera facilitata riducendo il numero di errori dovuti alla manualità di queste azioni. Sarà anche facilitata l’aggiunta, la rimozione, e la gestione della lista dei dipendenti.

**A diagram of a process flow

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**1.1.9 Acquisto automezzi dai fornitori**

**Nome processo** (identificativo): Acquisto automezzi dai fornitori (LE1)

**Attori coinvolti**: Titolare/Socio, fornitori, ispettori

**Archivi coinvolti**: Elenco mezzi, rubrica dei fornitori

**Descrizione del processo**: Il **titolare** deve fare una stesura delle caratteristiche che l'automezzo deve disporre come dimensione capienza marca, tipo di carburante, dispositivi di sicurezza ecc. Il titolare avvia una ricerca dei **fornitori** affidabili di automezzi consultando la rubrica dei fornitori ed in seguito avvierà una valutazione di tutte le offerte ricevute, includendo fattori come la reputazione del fornitore, la qualità dei veicoli, i tempi di consegna, il prezzo e le condizioni di garanzia. Successivamente si avrà la vera e propria negoziazione sul prezzo, i metodi di pagamento e consegna. In caso di raggiungimento di un accordo col fornitore si procederà all’acquisto dell’automezzo, delle questioni contabili si occuperanno gli organi dell’azienda competenti (vedi AO4). In caso di un non raggiungimento di un accordo si provvederà a cercare un nuovo accordo col fornitore. Prima della consegna un **ispettore** incaricato dall’azienda effettuerà un'ispezione della qualità dei veicoli per assicurarsi che rispondano alle specifiche stabilite nel contratto, in caso in cui l’ispezione da esito negativo si procederà al reso verso il fornitore (LE2).

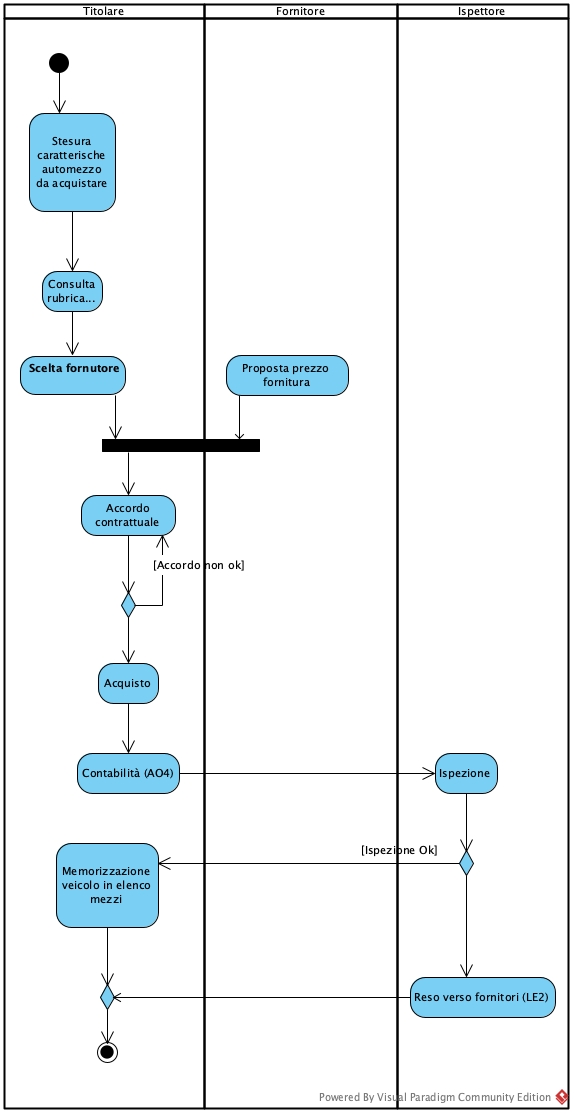
Avvenuta la consegna dei nuovi mezzi verranno registrati negli gli appositi documenti contenenti l’elenco dei mezzi e integrati nella flotta, in particolare l’azienda terrà traccia della targa, il modello, e delle altre informazioni che possono servire per la gestione dei mezzi della flotta.

**Altri processi correlati:**

LE2, LE3, AP1, AO4

**Considerazioni riguardo lo scenario futuro:**

La fase di registrazione dei nuovi automezzi acquistati sarà automatizzata, in questo modo si ridurrà il numero di errori dovuti a inserimenti manuali, inoltre si potrà tenere traccia di tutti gli automezzi acquistati e presenti nella flotta dell’azienda



La seguente tabella riporta in maniera riassuntiva le informazioni relative agli attori coinvolti in qualcuno dei processi sopra elencati e descritti.

|  |  |  |  |
| --- | --- | --- | --- |
| **Attore** | **Descrizione attore** | **Processi in cui l’attore è coinvolto** | **Archivi cui accede l’attore** |
| Addetto al magazzino | Uno dei dipendenti del negozio che si occupa delle mansioni relative al magazzino | -AP1 | * Scorte; * Prodotti da ordinare; * Ordini; * Rubrica dei fornitori; * DDT(o bolle), |
| Titolare/Socio | Uno dei 2 soci oppure il titolare del negozio | - AP1  -AO4  -GRU1  -GRU4  -LE1 | * Cliente; * Dipartimento del Servizio Clienti; * Respnsabile Qualità dei Servizi; |
| Contabile | Soggetto esterno responsabile della registrazione delle transizioni finanziarie e alla preparazione dei bilanci | -AO4  -AP2 | * Libro giornale; * Libro mastro; * Inventario; * Documenti bancari; * Documenti fiscali; |
| Fornitore | Soggetto esterno presso cui vengono acquistati i prodotti tipici calabresi e/o eventuali altri materiali | -AP1  -LE1 | * Documenti veicoli; * elenco mezzi; elenco dei fornitori; |
| Responsabile Amministrativo | Soggetto interno all’azienda che si occupa della gestione amministrativa aziendale | -AO4  -AP2 | * Rubrica Fornitori; |
| Responsabile Finanziario | Soggetto interno all’azienda che si occupa della gestione finanziaria aziendale | -AO4  -AP2 | * Rubrica Fornitori; |
| Cliente | Soggetto esterno che acquisisce beni e servizi dall’azienda | -SPV1  -SPV4 | * Registro reclami; * Rubrica clienti; * Comunicazioni con i clienti; * Registro richieste dei clienti; |
| Manager reparto corse | Soggetto interno all’azienda che ha la responsabilità della gestione delle corse percorse dai mezzi | -AO5 | * Elenco corse; * Documento turni; * Registri viaggio; * Sondaggi passeggeri; * Comunicazioni con i clienti; * Registro richieste clienti; |
| Manager Marketing | Soggetto interno all’azienda che si occupa di dirigere pianificare e supervisionare le attività di marketing (Promozione pubblicità sviluppo prodotto) | -SPV4  -AO5 | * Elenco corse; * Documento turni; * Registri viaggio; * Sondaggio passeggeri; |
| Manager Logistico | Soggetto interno che si occupa della gestione delle operazioni logistiche aziendali che comprendono approvvigionamento immagazzinaggio trasporto e distribuzione dei prodotti | -AP2 | * Rubrica Fornitori; |
| Risorse Umane | Dipartimento interno all’azienda che si occupa di pianificare i turni dei dipendenti e la gestione del personale tenendo conto delle singole necessità | -GRU1  -GRU4 | * Documento dei turni; * Elenco mezzi; * Elenco dipedenti; * Elenco mansioni; * Elenco corse; * Curriculum Candidati; * Elenco requisiti minimi; |
| Dipendenti | Soggetti interni all’azienda retribuiti regolarmente da essa, che ricoprono una gamma di ruoli aiutando l’azienda a operare in modo efficace | -GRU1 | * Documento dei turni; * Elenco mezzi; * Elenco dipendenti; * Elenco mansioni; * Elenco corse; |
| Ispettori | Soggetti esterni professionisti incaricati di valutare ispezionare e controllare il rispetto delle normative vigenti | -LE1 | * Documenti veicoli; * elenco mezzi; * rubrica dei fornitori; |
| Responsabile qualità dei servizi | Soggetto interno all’azienda responsabile di garantire che i servizi serviti da essa soddisfino gli standard di qualità stabiliti | -SPV1 | * Registrazione reclami; * Rubrica clienti; |
| Dipartimento servizio clienti | Dipartimento interno all’azienda responsabile di fornire assistenza e supporto ai clienti, includendo attività di risposta alle domande dei clienti, gestione reclami | -SPV1 | * Registrazione reclami; * Rubrica clienti; |
| Dipartimento customer care | Dipartimento interno all’azienda che si dedica a garantire una buona esperienza ai clienti | -SPV4 | * Rubrica dei Clienti; * Registrazione reclami; * Comunicazioni con i clienti; * Registro Richieste dei clienti; |
| Candidati | Persona interessata alla proposta di lavoro | -GRU4 | * Elenco dipendenti * Elenco mansioni * Elenco corse, elenco mezzi * Curriculum dei candidati * Elenco requisiti minimi |

La seguente tabella riporta in maniera riassuntiva le informazioni relative agli archivi individuati in qualcuno dei processi sopra elencati e descritti.

|  |  |  |  |
| --- | --- | --- | --- |
| **Archivio** | **Descrizione archivio** | **Processi in cui l’archivio è coinvolto** | **Attori che accedono all'archivio** |
| Scorte | Contiene per ogni prodotto presente in magazzino il numero di pezzi presenti | -AP1 | * Titolare/Socio * Addetto magazzino |
| Prodotti da ordinare | Contiene i dettagli dei prodotti che vengono ordinati ai fornitori | -AP1 | * Titolare/Socio * Fornitore * Addetto magazzino |
| Rubrica dei fornitori | Contiene una lista dei fornitori, con i dettagli per il contatto dei fornitori (telefono, e-mail, nome, cognome, partita iva, ragione sociale dell’azienda) | -AP1  -AP2  -LE1 | * Titolare/Socio * Manager logistico * Contabile * Responsabile amministrativo * Responsabile finanziario |
| DDT (bolle) | Contiene i documenti di trasporto della merce ricevuta | -AP1 | * Titolare/Socio * Fornitore * Addetto magazzino |
| Ordini | Contiene una lista di ordini effettuati a fornitore; per ciascun ordine contiene i dettagli (identificativo, merce ordinata, fornitore, prezzo, stato ordine) | -AP1 | * Titolare/Socio * Addetto magazzino |
| Registro reclami | Contiene una lista di tutti i di reclami ricevuti dai clienti, includendo dettagli, come data, ora, tipo di reclamo, dati del cliente e descrizione completa del problema. | -SPV1  -SPV4 | * Dipartimento servizio cliente * Responsabile qualità dei servizi * Dipartimento customer care * Manager Marketing |
| Registro richieste dei clienti | Contiene dettagli completi su ciascuna richiesta, inclusi il nome del cliente, il motivo della richiesta, la data e il canale di comunicazione. | -SPV4 | * Dipartimento customer care * Manager Marketing |
| Libro giornale | Documento in cui vengono registrate le transizioni finanziarie in ordine cronologico. Ogni transazione viene annotata con una breve descrizione, data, importo, indicazione del tipo: debito, credito | -AO4 | * Titolare/Socio * Contabile * Responsabile Amministrativo * Responsabile finanziario |
| Libro mastro | Registro contabile utilizzato per la contabilità aziendale per raccogliere e riassumere tutte le transizioni finanziarie registrate nel libro giornale. Le transazioni sono categorizzate in conti specifici | - AO4 | * Titolare/Socio * Contabile * Responsabile Amministrativo * Responsabile finanziario |
| Inventario | Lista dettagliata organizzata beni risorse prodotti che l’azienda possiede gestisce e tiene traccia. Utilizzati per monitorare la qualità il valore e la disponibilità dei beni | -AO4 | * Titolare/Socio * Contabile * Responsabile Amministrativo * Responsabile finanziario |
| Documenti bancari | Documenti emessi o da istituti bancari per facilitare e registrare le transizioni finanziarie, includono: estratti conto, assegni bancari, certificati di deposito, bollettini di pagamento | -AO4 | * Titolare/Socio * Contabile * Responsabile Amministrativo * Responsabile finanziario |
| Documenti fiscali | Documenti utilizzati per dichiarare e documentare l’attività finanziaria e fiscale dell’azienda, includono: fatture ricevuto dichiarazione dei redditi certificati fiscali e altri report che servono a calcolare dichiarare e pagare le tasse dovute dall’azienda | -AO4 | * Titolare/Socio * Contabile * Responsabile Amministrativo * Responsabile finanziario |
| Elenco corse | Contiene la lista di tutte le corse messe a disposizione dall’azienda caratterizzate da: codice del viaggio, tratta percorsa, orario di partenza e arrivo, data, numero di posti disponibili per l’automezzo che copre quella corsa | -AO5  -GRU4 | * Manager reparto corse * Manager marketing * Titolare/Socio * Risorse umane * Dipendenti |
| Documento turni | Documento che dettaglia gli orari assegnati a un dipendente in un determinato periodo. Esso elenca i giorni e gli orari in cui un dipendente è tenuto a lavorare specificando i turni, le pause, eventuali informazioni aggiuntive pertinenti. Monitora le presenze e le assenze dei dipendenti | -AO5  -GRU1 | * Manager reparto corse * Manager marketing * Titolare/Socio * Risorse umane * Dipendenti |
| Registri viaggio | Documenti aziendali che registrano i dettagli dei viaggi effettuati dai veicoli, caratterizzati da orari, percorsi, passeggeri al fine di monitorare e gestire l’operatività e la qualità del servizio | -AO5 | * Manager reparto corse * Manager marketing |
| Sondaggio passeggeri | Documento che contiene la raccolta di tutti i dati di feedback e opinioni dei passeggeri per valutare la soddisfazione l’esigenza e le criticità del servizio di trasporto offerto al fine di apportare miglioramenti | -AO5 | * Manager reparto corse * Manager marketing |
| Elenco mezzi | Registro dettagliato dei veicoli della flotta dell’azienda con informazioni sul modello l’anno di produzione le caratteristiche tecniche | -GRU1  -GRU4  -LE1 | * Titolare/Socio * Risorse umane * Dipendenti * Fornitori * Ispettori |
| Elenco dipendenti | Registro che contiene i dati dei dipendenti dell’azienda inclusi nomi ruoli dati di contatto e altre informazioni pertinenti per la gestione delle risorse umane | -GRU1  -GRU4 | * Titolare/Socio * Risorse umane * Dipendenti * Candidati |
| Curriculum candidati | Documento che riepiloga l’istruzione l’esperienza lavorativa di eventuali candidati facilitando il processo di selezione e assunzione dei candidati | -GRU4 | * Titolare/Socio * Risorse umane * Candidati |
| Elenco requisiti minimi | Documento che enumera i criteri essenziali come istruzioni esperienza o certificazione che i candidati devono soddisfare per essere considerati per determinate posizioni all’interno dell’azienda | -GRU4 | * Titolare/Socio * Risorse umane * Candidati |

* 1. 1.2 Specifica dei requisiti
     1. 1.2.1 Requisiti funzionali

[Elencare e descrivere testualmente e mediante diagrammi di casi d’uso, le varie funzionalità che il sistema dovrà offrire. Scrivere una sottosezione per ciascun gruppo funzionale (es., gestione magazzino). Per ogni gruppo funzionale fare un diagramma UML e per ogni funzione scrivere gli scenari. La descrizione degli scenari più complessi potrà essere corredata dal diagramma delle attività.]

Le aree funzionali identificate in questa sezione devono essere coerenti con i processi descritti in maniera dettagliata nella sezione precedente. Se tutti i processi descritti nella sezione precedente si riferiscono a una singola area funzionale, si avrà una singola sezione; altrimenti una sezione per ogni area funzionale identificata.

Viene individuata la seguente area funzionale dell’azienda: Gestione reclamo verso fornitori e customer care

Per questa area funzionale, si elencano i requisiti funzionali numerandoli (viene indicato se il requisito è di tipo MUST/SHOULD/MAY e l’attore/ruolo che usufruisce della funzionalità).

1. (MUST) Inserire l’anagrafica di un cliente che effettua reclamo o feedback (codice fiscale, nome, cognome, e-mail, numero telefono) [Dipartimento Servizio Clienti]
2. (MUST) Filtrare la lista dei clienti che hanno effettuato reclami (di default ordinata per cognome) attraverso i seguenti criteri: [Dipartimento Servizio Clienti]
   1. Per nome del cliente (a parità di nome per cognome)
   2. Per codice fiscale
   3. Per e-mail
   4. Per numero di telefono
3. (MUST) Visualizzare l’anagrafica di un cliente [Dipartimento Servizio Clienti]
4. (MUST) Aggiornare l’anagrafica di un cliente [Dipartimento Servizio Clienti]
5. (MUST) Eliminare un cliente [Dipartimento Servizio Clienti]
6. (MUST) Inserire un reclamo nell’archivio reclami (data, cliente che lo ha effettuato, stato reclamo, tipo, contenuto, identificativo) [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
7. (MUST) Visualizzare le informazioni relative a un reclamo [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
8. (MUST) Aggiornare le informazioni relative a un reclamo [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
9. (MUST) Eliminare un reclamo [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
10. (MUST) Filtrare la lista dei reclami (di default ordinata in base al numero identificativo) secondo i seguenti criteri [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
    1. Cliente che ha effettuato il reclamo
    2. Tipo di reclamo
    3. Stato del reclamo
11. (MUST) Inserire un feedback nell’archivio delle richieste clienti (data, cliente che lo ha effettuato, tipo, contenuto, identificativo) [Dipartimento Customer Care]
12. (MUST) Visualizzare le informazioni relative a un feedback [Dipartimento Customer Care, Manager Marketing]
13. (MUST) Eliminare un feedback [Dipartimento Customer Care]
14. (MUST) Filtrare la lista dei feedback (di default ordinata in base al numero identificativo) secondo i seguenti criteri: [Dipartimento Customer Care, Manager Marketing]
    1. Cliente che ha effettuato il feedback
15. (MUST) Visualizzare la lista dei reclami che sono in stato di lavorazione [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
16. (MUST) Visualizzare la lista dei reclami che sono in stati risolti [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
17. (MUST) Visualizzare la lista dei reclami non ancora risolti [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
18. (MUST) Visualizzare la lista dei clienti per i quali il reclamo è stato risolto [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
19. (MUST) Visualizzare la lista dei clienti per i quali il reclamo non è stato risolto [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
20. (MUST) Visualizzare la lista dei clienti per i quali il reclamo è in stato di lavorazione [Dipartimento Servizio Clienti, Responsabile qualità dei servizi]
21. (MUST) Visualizzare la lista dei clienti che hanno effettuato un feedback [Dipartimento Servizio Clienti, Dipartimento Customer Care]
22. (SHOULD) Calcolare la percentuale di reclami risolti [Dipartimento Servizio Clienti, Dipartimento Customer Care, Dipartimento del Marketing]
23. (SHOULD) Visualizzare la percentuale di reclami risolti [Dipartimento Servizio Clienti, Dipartimento Customer Care, Dipartimento del Marketing]
24. (SHOULD) Calcolare la percentuale di reclami non risolti [Dipartimento Servizio Clienti, Dipartimento Customer Care, Dipartimento del Marketing]
25. (SHOULD) Visualizzare la percentuale di reclami non risolti [Dipartimento Servizio Clienti, Dipartimento Customer Care, Dipartimento del Marketing]

Viene individuata la seguente area funzionale dell’azienda: Gestione turni dipendenti e ricerca e assunzione del personale

Per questa area funzionale, si elencano i requisiti funzionali numerandoli (viene indicato se il requisito è di tipo MUST/SHOULD/MAY e l’attore/ruolo che usufruisce della funzionalità).

1. (MUST) Inserire un dipendente all’interno del documento contenente l’elenco dipendenti (codice fiscale, nome, cognome, data di nascita, mansione svolta all’interno dell’azienda, dipartimento di cui fa parte, salario, numero di telefono, e-mail) [Risorse umane]
2. (MUST) Eliminare un dipendente dal documento contenente l’elenco dei dipendenti [Risorse umane]
3. (MUST) Filtra la lista dei dipendenti (ordinata di default per codice fiscale) secondo le seguenti caratteristiche: [Risorse umane]
   1. Salario fornito dall’azienda (a parità di salario in base al codice fiscale)
   2. Il dipartimento di cui fa parte (a parità di dipartimento in base al codice fiscale)
   3. La mansione svolta all’interno dell’azienda (a parità di mansione in base al codice fiscale)
4. (MUST) Visualizzare le informazioni relative a un dipendente [Risorse umane]
5. (MUST) Modificare le informazioni relative a un dipendente [Risorse umane]
6. (SHOULD) Visualizzare il dipendente che ha lo stipendio massimo [Risorse umane, Titolare/Socio]
7. (SHOULD) Visualizzare il dipendente che ha lo stipendio minimo [Risorse umane, Titolare/Socio]
8. (SHOULD) Visualizzare il totale degli stipendi [Risorse umane, Titolare/Socio]
9. (SHOULD) Visualizzare la media degli stipendi [Risorse umane, Titolare/Socio]
10. (MUST) Inserire un turno all’interno del documento dei turni (dipendente, data, orario) [Risorse umane, Titolare/Socio]
11. (MUST) Modificare un turno all’interno del documento dei turni [Risorse umane, Titolare/Socio]
12. (MUST) Visualizzare le informazioni relative a un turno [Risorse umane, Titolare/Socio, Dipendenti]
13. (MUST) Filtrare la lista dei turni (ordinata di default in base alla data) secondo i seguenti parametri: [Risorse umane, Titolare/Socio]
    1. Dipendente che svolge il turno
    2. Mansione che sta svolgendo il dipendente di quel turno
14. (MUST) Inserire un requisito minimo di candidatura (titolo di studio richiesto) all’interno dell’apposito documento “elenco dei requisiti minimi” [Risorse umane]
15. (MUST) Eliminare un requisito minimo di candidatura all’interno dell’apposito documento “elenco dei requisiti minimi” [Risorse umane]
16. (MUST) Modificare un requisito minimo di candidatura [Risorse umane]
17. (MUST) Visualizzare un requisito minimo di candidatura [Risorse umane, Candidati]
18. (MUST) Memorizzare il numero di posti vacanti da coprire con assunzione [Risorse umane]
19. (MUST) Modificare il numero di posti vacanti da coprire con assunzione [Risorse umane]

Viene individuata la seguente area funzionale dell’azienda: Acquisto auto mezzo da fornitori, gestione acquisto pneumatici carburante e pezzi di ricambio, acquisto computer registratori di cassa lettori codici a barra e sistemi software gestionali

Per questa area funzionale, si elencano i requisiti funzionali numerandoli (viene indicato se il requisito è di tipo MUST/SHOULD/MAY e l’attore/ruolo che usufruisce della funzionalità).

Viene individuata la seguente area funzionale dell’azienda: Aggiornamento catalogo corse

Per questa area funzionale, si elencano i requisiti funzionali numerandoli (viene indicato se il requisito è di tipo MUST/SHOULD/MAY e l’attore/ruolo che usufruisce della funzionalità).

1. (MUST) Inserire una corsa nell’elenco delle corse (identificativo, località partenza, località arrivo, lista fermate, data corsa, orari di partenza e arrivo alle fermate) [Manager Reparto Corse]
2. (MUST) Visualizzare le corse [Manager Reparto Corse]
3. (MUST) Eliminare una corsa dall’elenco delle corse [Manager Reparto Corse]
4. (MUST) Modificare una corsa esistente [Manager Reparto Corse]
5. (MUST) Filtrare la lista delle corse (di default ordinata secondo l’identificativo) secondo i seguenti parametri: [Manager Reparto Corse]
   1. Lista delle fermate
   2. Data della corsa (a parità di data per identificativo)
   3. Orario di partenza (a parità di orario di partenza per identificativo)
   4. Orario di arrivo (a parità di orario di arrivo per identificativo)
6. (SHOULD) Visualizzare tutte le corse che arrivano ad un certo orario [Manager Reparto Corse]
7. (SHOULD) Visualizzare tutte le corse che arrivano ad un certo orario [Manager Reparto Corse]
8. (SHOULD) Visualizzare tutte le corse che partono da una determinata stazione [Manager Reparto Corse]
9. (SHOULD) Visualizzare tutte le corse che arrivano ad una determinata stazione [Manager Reparto Corse]
10. (MUST) Inserire una fermata (via, codice identificativo, città) [Manager Reparto Corse]
11. (MUST) Modificare una fermata [Manager Reparto Corse]
12. (MUST) Rimuovere una fermata [Manager Reparto Corse]
13. (MUST) Visualizzare una fermata [Manager Reparto Corse]
14. (MUST) Filtrare una fermata dalla lista delle fermate (di default ordinata in base all’identificativo): [Manager Reparto Corse]
    1. Via fermata
    2. Città della fermata

Viene individuata la seguente area funzionale dell’azienda: Gestione della contabilità

Per questa area funzionale, si elencano i requisiti funzionali numerandoli (viene indicato se il requisito è di tipo MUST/SHOULD/MAY e l’attore/ruolo che usufruisce della funzionalità).

1. (MUST) Inserire una transazione finanziaria (identificativo, data, descrizione, importo, conto coinvolto, tipo (entrata, uscita)) sul libro giornale [Titolare, Responsabile Amministrativo e Finanziario]
2. (MUST) Modificare una transizione finanziaria sul libro giornale [Titolare, Responsabile Amministrativo e Finanziario]
3. (MUST) Visualizzare una transazione finanziaria dal libro giornale [Titolare, Responsabile Amministrativo e Finanziario]
4. (MUST) Filtrare la lista delle transazioni finanziarie del libro giornale (di default ordinate per identificativo) secondo i seguenti criteri: [Titolare, Responsabile Amministrativo e Finanziario]
   1. Il tipo di transazione finanziaria (a parità di transazione per identificativo)
   2. La data della transazione finanziaria (a parità di data per identificativo)
   3. L’importo della transazione finanziaria (a parità di importo per identificativo)
   4. L’identificativo della transazione finanziaria
5. (MUST) Rimuovere una transazione finanziaria dal libro giornale [Titolare, Responsabile Amministrativo e Finanziario]
6. (MUST) Inserire una transazione finanziaria (identificativo, data, descrizione, importo, conto coinvolto, tipo (entrata, uscita)) sul libro mastro [Titolare, Responsabile Amministrativo e Finanziario]
7. (MUST) Modificare una transizione finanziaria sul libro mastro [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
8. (MUST) Visualizzare una transazione finanziaria dal libro mastro [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
9. (MUST) Rimuovere una transazione finanziaria dal libro mastro [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
10. (MUST) Filtrare la lista delle transazioni finanziarie del libro mastro (di default ordinate per identificativo) secondo i seguenti criteri: [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
    1. Il tipo di transazione finanziaria (a parità di transazione per identificativo)
    2. La data della transazione finanziaria (a parità di data per identificativo)
    3. L’importo della transazione finanziaria (a parità di importo per identificativo)
    4. L’identificativo della transazione finanziaria
11. (MUST) Memorizzare la tipologia dei conti [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
12. (MUST) Visualizzare la lista dei conti dell’azienda [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
13. (MUST)Rimuovere un conto dalla lista dei conti [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
14. (MUST) Aggiungere un conto alla lista dei conti [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
15. (MUST) Visualizzare un conto dalla lista dei conti dell’azienda [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
16. (MUST) Inserire una fattura (totale, data emissione, iva, oggetto transazione, numero univoco progressivo di fattura, mittente, destinatario) nei documenti fiscali [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
17. (MUST) Rimuovere una fattura dai documenti fiscali [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
18. (MUST)Visualizzare una fattura dai documenti fiscali [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
19. (MUST) Modificare una fattura [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
20. (MUST) Filtrare la lista delle fatture (di default ordinate secondo il numero univoco identificativo) secondo i seguenti criteri: [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
    1. Il totale della fattura (a parità di totale per identificativo)
    2. Il mittente della fattura (a parità di mittente per identificativo)
    3. Il destinatario della fattura (a parità di destinatario per identificativo)
    4. La data di emissione della fattura (a parità di data per identificativo)
    5. La partita iva della fattura (a parità di iva per identificativo)
21. (MUST) Inserire un bene (numero identificativo progressivo, descrizione) nell’inventario [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
22. (MUST) Rimuovere un bene dall’inventario [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
23. (MUST) Visualizzare un bene nell’inventario [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
24. (MUST) Modificare un bene nell’inventario [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
25. (SHOULD) Visualizzare la fattura con totale maggiore [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
26. (SHOULD) Visualizzare la fattura con totale minore [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
27. (SHOULD) Visualizzare la fattura con totale medio [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
28. (SHOULD) Visualizzare la somma dei totali delle fatture [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
29. (SHOULD) Visualizzare la transazione con totale maggiore [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
30. (SHOULD) Visualizzare la transazione con totale minore [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
31. (SHOULD) Visualizzare la transazione con totale medio [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
32. (SHOULD) Visualizzare la somma dei totali delle transazioni [Titolare, Responsabile Amministrativo e Finanziario, Contabile]
    * 1. 1.2.2 Requisiti non-funzionali

[Descrivere secondo quali caratteristiche tecnologiche e di efficienza il sistema deve funzionare. Descrivere inoltre quali sono le categorie di utenti che dovranno avere accesso al sistema, specificando per ciascun gruppo di utenti a quali funzioni essi possono accedere. Rappresentare graficamente un’eventuale gerarchia tra utenti.]

Funziona via web? Requisiti sui tempi di esecuzione? Quali utenti possono fare cosa? Spiegare come i requisiti implichino la tecnologia scelta

1. 2 Progettazione

[Descrizione libera e breve (max mezza pagina) relativa alla progettazione effettuata per lo specifico sistema. Rappresenta un’introduzione della sezione, quindi dovrebbe essere scritta dopo aver scritto le sottosezioni. Non scrivere nulla piuttosto che scrivere cos’è la progettazione in generale!]

* 1. 2.1 Modellazione della base di dati

[A partire dalla descrizione degli archivi e delle funzionalità descritte nella precedente sezione, descrivere quali sono i dati che possono e devono essere strutturati in una base di dati relazionale a supporto del sistema informativo.]

Occorre spiegare quali sono le informazioni che si è scelto di rappresentare e perché. Ciò va fatto ricordando e riesaminando le specifiche funzionali emerse dall’analisi dei requisiti.

* + 1. 2.1.1 Modello concettuale

[Inserire il modello E/R (diagramma entità-relazione) della base di dati a supporto del sistema informativo, commentando eventuali caratteristiche particolari.]

Inserire il dizionario dei concetti per entità e quello per relazioni: permettono di arricchire lo schema E-R con descrizioni in linguaggio naturale di entità, relationship ed attributi.

Inserire i vincoli d’integrità sui dati che non possono essere indicati esplicitamente in uno

schema ER; possono essere descritti in linguaggio naturale.

Inserire le regole di derivazione dei dati: permettono di esplicitare che un concetto dello schema può essere ottenuto (mediante inferenza o calcolo aritmetico) da altri concetti dello schema.

* + 1. 2.1.2 Modello relazionale

[Inserire il modello relazionale (testuale) della base di dati a supporto del sistema informativo. Descrivere testualmente i tipi da usare per ciascun attributo, gli eventuali vincoli presenti su ciascun attributo (primary key, not null, unique, foreign key), commentando eventuali scelte particolari di traduzione dal modello E/R.]

Discutere la sintassi utilizzata per il modello relazionale (come si indicano chiavi primarie, chiavi candidate, chiavi esterne, ecc.).

Discutere il metodo di traduzione seguito dal modello E/R al modello relazionale, ad esempio per la traduzione delle generalizzazioni, eventuali rilassamenti introdotti.

Inserire almeno un Trigger definito su una relazione dello schema relazionale prodotto.

* 1. 2.2 Modellazione della logica di business

[Inserire il diagramma delle classi che saranno utilizzate per implementare la logica di business. Per ciascuna classe i metodi che devono essere implementati. Nel caso di metodi particolari (es., metodi CRUD che devono tenere conto di particolari vincoli), abozzarli in pseudo-codice.]

Il diagramma delle classi da inserire un diagramma di progetto in cui vanno definite le classi (attraverso appositi diagrammi UML) che implementano la logica applicativa, aventi metodi basilari CRUD (Create, Read, Update, Delete) e metodi di business ad alto livello (comportano diverse operazioni CRUD). Per ogni metodo, oltre a definire la segnatura (firma), occorre definire particolari vincoli da soddisfare, e se necessario ai fini della comprensione della funzione svolta, abbozzare il metodo in pseudo-codice.

* 1. 2.3 Modellazione delle interfacce

[Inserire un diagramma delle interfacce, con i collegamenti di navigazione. Commentare eventuali scelte particolari adottate.]

L’accesso al sistema, qualunque sia la tecnologia usata, avviene per mezzo di form. Per ogni form, riportare un mockup (modello) o una snapshot, se la documentazione viene prodotta dopo l’implementazione, spiegando brevemente cosa consente di fare; riportare le classi e i metodi riportati nella descrizione della logica di business che sono coinvolti dalle operazioni fattibili tramite tale form; indicare quali utenti hanno possibilità di accedere al form; collegare (con archi direzionali) form tra cui esistono link; eventualmente, etichettare i link con una spiegazione dei parametri passati.

1. 3 Implementazione

[Descrivere come è stato implementato il sistema, facendo riferimento alle tecnologie utilizzate. Si potrà inoltre allegare una breve documentazione del codice prodotto.]

Descrivere come è strutturata l'applicazione, quali sono i componenti/elementi principali dello lo strato dei dati, dello strato della logica applicativa, e delle interfacce grafiche.

1. Appendice

[Inserire tutto ciò che si ritiene utile inserire, ma che non fa strettamente parte delle sezioni precedenti. Il glossario dei termini deve essere inserito obbligatoriamente.]

* 1. Glossario dei termini

|  |  |  |  |
| --- | --- | --- | --- |
| **Termine** | **Descrizione** | **Sinonimi e acronimi** | **Termini collegati** |
| Torpedone | Autoveicolo adibito al trasporto collettivo di persone | Pullman, autobus |  |
| Customer Care | Assistenza che un'organizzazione offre ai propri clienti prima o dopo l'acquisto o l'utilizzo di prodotti o servizi | Assistenza clienti |  |
| DDT | Documento previsto dalla legge italiana in tema di trasporto delle merci, che in vari casi ha sostituito un precedente documento denominato "bolla di accompagnamento" | Bolla di accompagnamento,  Documento di trasporto |  |
| Audit | Strumento utile per valutare la conformità della propria azienda rispetto ai requisiti obbligatori vigenti, quali quelli che possono essere stabiliti da normative, standard di certificazione, richieste del cliente e altre fonti ancora. |  |  |