

Software Implementation & Integration Document

Version 1

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REVISION CHART

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CONTENTS

1.	INTRODUCTION	4
1.1	Purpose	4
1.2	Scope	
1.3	DEFINITIONS, ACRONYMS, AND ABBREVIATIONS	
1.4	References	
1.5	Overview	
2.	DEVELOPMENT TOOLS AND FRAMEWORKS	6
2.1	DEVELOPMENT TOOLS	
2.1	· · · · · · · · · · · · · · · · · · ·	
2.1		
2.1		
2.2	APPLICATION FRAMEWORKS	
	2.1 Front-end Frameworks	
2.3	TESTING TOOLS	7
3.	CHALLENGES	8
3.1	OVERALL DIFFICULTIES	8
3.2	SPECIFIC TECHNICAL CHALLENGES	
3.2		
3.2	<u>e</u>	
3.2	2.3 Technical Challenge 3	9
3.2	2.4 Technical Challenge 4	9
3.3	TEAM COORDINATION	9
3.3	3.1 Communication Barriers	9
3.3	3.2 Task Management	.10
4.	CODE SNIPPETS	.11
4.1	EXAMPLE SNIPPET 1 : LOGIN FORM	.11
4.2	EXAMPLE SNIPPET 2(HOW DATA IS RETRIEVED AND HANDLED IN THE SOFTWARE	
	M)	17
4.3	EXAMPLE SNIPPET 3(EXAMPLES OF HOW TO INSERT A NEW PART INTO THE	• 1 /
	BASE)	19
4.4	EXAMPLE SNIPPET 4(EXAMPLES OF HOW TO INSERT A NEW PART INTO THE	.1)
	BASE)	.23
4.5	EXAMPLE SNIPPET 5(EXAMPLES OF HOW TO INSERT A NEW PART INTO THE	
	BASE)	.30
4.6	EXAMPLE SNIPPET 6(EXAMPLES OF HOW TO INSERT A NEW PART INTO THE	.50
	BASE)	.32

4.7	EXA	AMPLE SNIPPET 7(EXAMPLES OF HOW TO INSERT A NEW PART INTO THE	
DATA	BASE)		39
5.	TES	ST CASES	40
5.1	TES	T CASE SELECTION	40
5	1.1	Approach Used:	40
5	1.2	Selection Criteria:	40
5.2	TES	T CASES	40
5.2	2.1	Feature 1: User Acess	
5.2	2.2	Feature 2: User Management	41
5.2	2.3	Feature 3: Job Card Management	
5.2	2.4	Feature 4: Parts Management	
5.2	2.5	Feature 5: Customer Management	
5.2	2.6	Feature 6: Customer Management	
5.2	2.7	Feature 7: Accounting Management	
5.2	2.8	Feature 8: Invoice Management	
5.2	2.9	Feature 9: Car Management	46

1. Introduction

1.1 Purpose

This document is a complete guide outlining the strategies, tools, and methods used during the software's integration and testing stages. It includes a thorough explanation of the chosen frameworks and technologies, highlights the difficulties faced, and details several test cases. Its primary purpose is to assist with future maintenance, whether by the current team or new developers, by providing a clear and structured understanding of the system's design and operation. This not only helps avoid repeating previous errors but also streamlines and enhances the overall development workflow.

1.2 Scope

The system caters to the specific needs of the "Mobile Garage Larnaca" company by providing a comprehensive web application. From the user's perspective, the system will provide tools to effectively manage and update the inventory of parts, including the ability to add, edit, or remove items as needed. Users will also be able to input invoice details into the system, along with the parts purchased with each invoice. In addition, the system will maintain a detailed database of client information, including essential details such as name, contact information, service address, cars, and transaction history. This ensures that all client interactions are efficiently recorded and tracked. Additionally, the system will include the details of each ongoing or finished job. The administrator will have full access to these functionalities but will also be able to manage user accounts, including creating new ones, editing existing accounts, or deleting them if necessary. Lastly, the system will offer the ability to generate detailed annual and monthly statistics to assist in analyzing business performance and planning future strategies. By providing these functionalities, the platform will support the growth and operational efficiency of the Mobile Garage company.

1.3 Definitions, Acronyms, and Abbreviations

- Administrator (Admin): Refers to the individual responsible for managing the system. The administrator has the authority to oversee all system operations, including customer management, inventory control, job card creation, and the generation of statistical reports.
- <u>User</u>: Refers to the registered employees of the mobile garage company who interact with the system to manage customer records, schedule appointments, track job statuses, and update inventory.
- <u>Client</u>: Refers to the customers of the mobile garage company who request services or purchase products. Clients may include individual customers or corporate entities.

 <u>Database</u>: A structured and centralized repository used to store and manage all system data, including customer records, inventory details, job information, and transaction history.

1.4 References

Software Technology course CEI_324.

1.5 Overview

This document provides a thorough breakdown of the development tools used in building the system, including brief explanations of the reasons behind their selection and how they were utilized. It also outlines the technical challenges we faced, first in general terms and then with detailed accounts of specific issues. For each problem, we describe the situation, the solution implemented, and possible alternative approaches. To support our explanations, we include code samples that illustrate key functionalities, such as database integration and API interactions. Lastly, the document presents a set of test cases covering all major system features, using both black box and glass box testing methods where appropriate.

2. DEVELOPMENT TOOLS AND FRAMEWORKS

2.1 Development Tools

2.1.1 Integrated Development Environment (IDE)

2.1.1.1 Visual Studio Code

The project's software was developed using Visual Studio Code (v1.99.2), a widely used and lightweight code editor. It was chosen for its speed and efficiency, particularly in handling large codebases. A major advantage of VS Code is its support for extensions, many of which were employed throughout the development process. Notably, the Git extension was used to seamlessly sync updates to the project's Github repository. Furthermore, the editor's collaboration features allowed team members to work together in real time, which was especially valuable when troubleshooting problems.

IDE website: https://code.visualstudio.com/

2.1.2 Version Control System (VCS)

2.1.2.1 GitHub

In building the system, every developer on the team used Git locally to manage their code. By working on individual branches, each member could develop features independently, avoiding conflicts and streamlining parallel development. GitHub acted as the central hub where all code was stored, shared, and merged. This setup made collaboration smoother, as it allowed for easy tracking, discussion, and review of changes. As a result, team coordination improved and the development process became more organized and efficient.

VCS website: https://github.com/

2.1.3 Database Management System (DBMS)

2.1.3.1 phpMyAdmin

We used PhpMyAdmin for database management, which played a key role during development. It provided a range of features that helped us manage both the structure and the content of the database. The tool allowed us to insert and modify data easily, which was essential for testing the different features we built. Moreover, its user-friendly and

flexible interface made it easier to adjust the database design whenever necessary, making it a valuable asset throughout the project.

DBMS website: https://www.phpmyadmin.net/

2.2 Application Frameworks

2.2.1 Front-end Frameworks

2.2.1.1 Bootstrap

Bootstrap was used as the front-end framework due to its flexibility and ease of use. Its comprehensive documentation simplified the design process, and the built-in components helped accelerate development. One of its key advantages is responsive design, ensuring the system looks and functions smoothly across different screen sizes, which was crucial for this project.

Front-end Framework website: https://getbootstrap.com/

2.3 Testing Tools

We didn't use any Testing Tool, because we could test our code using previously mentioned tools.

3. CHALLENGES

3.1 Overall Difficulties

- Transitioning the system from a modular to an object-oriented approach introduced delays and added complexity, as it required the team to learn and adapt to objectoriented programming concepts.
- Communication and collaboration challenges arose, as this was our first experience working together on a software development project.
- Considerable time was spent on adaptation and research, as the selected programming languages were unfamiliar to most team members.
- Frequent database modifications were necessary to support evolving and changing system functionalities.
- Delays in meetings with the client to clarify specific system features and logic also impacted our ability to stay on schedule.
- When deploying the system to the server, numerous bugs and errors surfaced, all of which needed to be resolved under tight time constraints.

3.2 Specific Technical Challenges

3.2.1 Technical Challenge 1

One of the technical challenges we faced involved the job card photo upload feature. Specifically, allowing users to upload and attach images to job cards proved more complex than anticipated. We encountered issues related to file handling, storage configuration, and validating image formats and sizes. Additionally, ensuring that the uploaded images were properly linked to the correct job card and displayed consistently across the system required careful backend and frontend integration. These obstacles added unexpected development time and required us to explore solutions around secure file storage and user feedback for upload errors.

3.2.2 Technical Challenge 2.

Another technical challenge we faced was in the accounting part of the system, where accuracy was very important. The system needed to collect numbers from different managements like jobs management, parts, invoices and additional expenses, and then use those to perform various calculations. This was more complicated than expected, as even a small mistake in where the data came from or how it was calculated could lead to incorrect totals or reports. We had to spend extra time making sure the system was always using the correct data and doing the right calculations. It also required a lot of testing and reviewing to make sure everything worked as expected and gave reliable results.

3.2.3 Technical Challenge 3.

When we started combining all the object-oriented code. Even though each part of the system worked well on its own, putting everything together caused many unexpected problems. Some features stopped working or didn't behave as expected, and we had to spend time figuring out how different classes and objects were interacting. This made debugging more complex. We faced similar issues when deploying the system from localhost to the server, certain things broke due to changes in environment, file paths, or server settings. Fixing these problems took time and added pressure near the end of the system's development.

3.2.4 Technical Challenge 4.

In the part management section, we faced difficulties with implementing supplier name suggestions. The goal was to make it easier for users to select suppliers by showing suggestions as they typed, but getting this feature to work smoothly took more time than expected. We had to make sure the suggestions were accurate, fast, and didn't slow down the system. After some trial and error, we finally found a solution that worked well. Once it was in place, we were able to reuse the same logic in the invoice management section, which made that part of the system much easier to build.

3.3 Team Coordination

3.3.1 Communication Barriers

During the project, we faced several communication challenges. One of the main issues was the lack of continuous communication between team members due to different priorities and time constraints. Some of us had completely different sleep schedules, with a few working late hours while others had daytime responsibilities. Additionally, some members were able to dedicate more time to the project, while others had other obligations. Meeting in person was incredibly difficult, which is why we relied heavily on a messaging platform to share updates about each team member's progress and to report any issues that needed to be addressed.

This way of working, although flexible, introduced some difficulties — such as inconsistencies in error messages, user interface outputs, and frontend design choices. Despite these obstacles, through regular updates and collaboration on Messenger, we managed to keep communication open and eventually succeeded in bringing everything together and making it work.

3.3.2 Task Management

Our approach to managing tasks and schedules was a mix of structured planning and flexible communication. At the beginning of the project, we used both a Gantt chart and Trello to organize tasks, assign responsibilities, and set deadlines. Trello helped us visualize what needed to be done and track progress in a simple, drag-and-drop format. However, as the project progressed, we noticed that some team members were using Trello less consistently than others. Since we already had the Gantt chart to monitor overall progress and deadlines, we eventually stopped relying on Trello, as it became less necessary than we initially thought.

For daily communication, we primarily used Messenger, which worked well given our very different schedules—some of us worked late at night, while others were only available during the day. Messenger allowed us to stay in touch quickly, share updates, report bugs, and coordinate tasks in real time.

We used GitHub for version control, which was crucial for collaborating on code and avoiding merge conflicts. OneDrive was also used to share larger files or documents that weren't easily managed through GitHub.

While we didn't stick to a strict project management system throughout the entire project, the combination of these tools allowed us to stay organized enough. However, the lack of a single, consistent platform for task tracking did create some occasional confusion— especially when coordinating overlapping tasks or keeping track of responsibilities. Despite these challenges, we managed to adapt and keep things moving forward through open communication and teamwork.

4. CODE SNIPPETS

4.1 Example Snippet 1 : Login Form

Code that creates a form where the user enters their credentials and submits the form to log in to their account.

Process.php

```
<?php
v if (session_status() === PHP_SESSION_NONE) {
       session_start();
  require_once 'UserSystem.php';
  $model = new UserModel();
  $view = new UserView();
  $action = $_POST['action'] ?? $_GET['action'] ?? '';
v switch ($action) {
       case 'login':
           $identifier = $_POST['identifier'] ?? '';
           $password = $_POST['password'] ?? '';
           if (empty($identifier) || empty($password)) {
    $_SESSION['error'] = 'Please fill in all fields';
    header(header: 'Location: index.php');
            $user = $model->validateLogin(identifier: $identifier, password: $password);
                $_SESSION['user'] = $user;
                $_SESSION['message'] = 'Login successful!';
                if (isset($_SESSION['redirect_url'])) {
    $redirect_url = $_SESSION['redirect_url'];
                     unset($_SESSION['redirect_url']); // Clear the stored URL
                     header(header: 'Location: ' . $redirect_url);
                     header(header: 'Location: ../dashboard.php');
```

```
} else {
        $_SESSION['error'] = 'Invalid username/email or password';
        header(header: 'Location: index.php');
    break;
case 'logout':
    session_destroy();
    $_SESSION['message'] = 'You have been logged out successfully';
    header(header: 'Location: index.php');
    exit;
    break;
case 'forgot-password':
    $identifier = $_POST['identifier'] ?? '';
    $questionId = $_POST['security_question_id'] ?? '';
    $answer = $_POST['security_answer'] ?? '';
    if (empty(\$identifier) || empty(\$questionId) || empty(\$answer)) {
        $_SESSION['error'] = 'Please fill in all fields';
        header(header: 'Location: index.php?page=forgot-password');
        exit;
    $user = $model->validateSecurityAnswer(identifier: $identifier, questionId: $questionId, answer: $
    if ($user) {
        $token = $model->createResetToken(identifier: $identifier);
        if ($token) {
            $_SESSION['message'] = 'Password reset link: ' .
                'http://' . $_SERVER['HTTP_HOST'] .
dirname(path: $_SERVER['PHP_SELF'])
```

```
'/index.php?page=reset-password&token=' . $token;
           $_SESSION['error'] = 'Failed to create reset token. Please try again.';
    } else {
        $_SESSION['error'] = 'Invalid security question answer.';
   header(header: 'Location: index.php?page=forgot-password');
   break;
case 'reset-password':
   $token = $_POST['token'] ?? '';
   $password = $_POST['password'] ?? '';
   $confirm_password = $_POST['confirm_password'] ?? '';
   if (empty($password) || empty($confirm_password)) {
        $_SESSION['error'] = 'Please fill in all fields';
       header(header: 'Location: index.php?page=reset-password&token=' . $token);
    if ($password !== $confirm_password) {
        $_SESSION['error'] = 'Passwords do not match';
       header(header: _Location: index.php?page=reset-password&token=' . $token);
   if (strlen(string: $password) < 8) {</pre>
        $_SESSION['error'] = 'Password must be at least 8 characters long';
       header(header: 'Location: index.php?page=reset-password&token=' . $token);
```

```
exit;
   $tokenData = $model->validateResetToken(token: $token);
   if ($tokenData) {
       if ($model->updatePassword(identifier: $tokenData['user id'], newPassword: $password)) {
           $model->markTokenAsUsed(token: $token);
$_SESSION['message'] = 'Your password has been reset successfully.';
           header(header: 'Location: index.php');
           $_SESSION['error'] = 'Failed to update password. Please try again.';
           header(header: 'Location: index.php?page=reset-password&token=' . $token);
   } else {
       $_SESSION['error'] = 'Invalid or expired reset token.';
       header(header: 'Location: index.php?page=forgot-password');
       exit;
   break;
case 'register':
   $username = $_POST['username'] ?? '';
   $email = $_POST['email'] ?? '';
   $password = $_POST['password'] ?? '';
   $confirmPassword = $_POST['confirm_password'] ?? '';
   $questionId = $_POST['security_question_id'] ?? '';
   $answer = $_POST['security_answer'] ?? '';
   header(header: 'Location: index.php?page=register');
```

Code to validate the credentials entered by the user in the login form.

UserSystem.php

```
<?php
if (session_status() === PHP_SESSION_NONE) {
    session_status();
}

require_once '../../config/db_connection.php';

// User Model Class
4 references | 0 implementations
class UserModel {
    12 references
    private $db;

4 references | 0 overrides
    public function __construct() {
        global $pdo;
        $this->db = $pdo;
    }

1 reference | 0 overrides

public function validateLogin($identifier, $password): mixed {
    $stmt = $this->db->prepare(query: "SELECT * FROM users WHERE email = ? OR username = ?");
    $stmt->execute(params: [$identifier, $identifier]);
    $user = $stmt->fetch(mode: PDO::FETCH_ASSOC);

if ($user && password_verify(password: $password, hash: $user['passwrd'])) {
        return $user;
    }
    return false;
}
```

4.2 Example Snippet 2(How data is retrieved and handled in the software system)

Front-end part that displays customer data in a table (datatable).

Customer_main.php

JavaScript part (AJAX call) used for communicating with the backend file and retrieving data in order to display it in a table (datatable).

get_print_customers.php

```
### Continues Table ### Co
```

The back-end functionality that involves retrieving data from the database and returning it in JSON format.

```
function getPaginatedCustomers($limit, $offset): array {
   global $pdo;
   $sq1 = "SELECT
               c.CustomerID,
               c.FirstName,
               c.LastName,
               (SELECT Address FROM addresses WHERE CustomerID = c.CustomerID LIMIT 1) as Address,
               (SELECT nr FROM phonenumbers WHERE CustomerID = c.CustomerID LIMIT 1) as Phone,
                (SELECT Emails FROM emails WHERE CustomerID = c.CustomerID LIMIT 1) as Email
           FROM customers c
           ORDER BY c.FirstName ASC
   $stmt = $pdo->prepare(query: $sql);
   $stmt->bindValue(param: ':limit', value: $limit, type: PDO::PARAM_INT);
   $stmt->bindValue(param: ':offset', value: $offset, type: PDO::PARAM_INT);
   $stmt->execute();
   return $stmt->fetchAll(PDO::FETCH_ASSOC);
```

4.3 Example Snippet 3(Examples of how to insert a new part into the database)

HTML code example for a form to add a new part.

Add_parts_form.php

```
/div>
//div>
//div class="form=group">
//div class="form=control">
//div class="form=control">
//div class="form=group">
/
```

```
| Auto- | Auto
```

JavaScript code example using AJAX to send form data to the back-end.

Add_parts_form.php

```
formData.apperd ('parts', JSON.stringify(parts));

// Debug Log
console.log('Sending data:', {
    supplier: document.getElementById('supplier').value,
    supplierD: document.getElementById('supplierD').value,
    parts: parts
};

// Submit the form
5.ajax({
    url: '../controllers/add_parts_controller.php',
    data: formData,
    processData: false,
    contentType: false,
    datalype: 'json', // Telt fluery to expect JSON response
    success: function(response) {
        (console.log('Response): , response);
        if (response.status == 'success') {
            ('BsuccessBasege').text(response.message);
            ('BsuccessBasege').text(response.m
```

```
383
384
385
386
387
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389
390
391
391
392
393
394
395
});

alert(errorMessage);
396
});
```

4.4 Example Snippet 4(Examples of how to insert a new part into the database)

HTML code example for a form to edit an invoice.

Edit_invoice.php

```
| Comparison | Control | C
```

```
clabel for="ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"=ImmodesNe"
```

```
<i class="fas fa-edit"></i> Edit
                          </button>
                         <button type="button" class="btn btn-danger delete-part-btn" data-part-id="<?php echo $part['PartID']; ?>">
                             <i class="fas fa-trash"></i> Delete
               </button>
           <?php endforeach: ?>
</button:
        <div class="btngroup text-center mt-4">
           <button type="button" class="btn btn-secondary" onclick="openForm('<?php echo $id; ?>')">Cancel</button>
     </form>

√ ⟨div class="modal fade" id="partModal" tabindex="-1" aria-labelledby="partModalLabel" aria-hidden="true">
        <h5 class="modal-title" id="partModalLabel">Edit Part</h5>
               </button>
            <div class="modal-body">
     <form id="partForm">
                  <input type="hidden" id="partId">
<div class="mb-3">
```

```
| displain | displain
```

JavaScript code example using AJAX to send form data to the back-end.

Edit_invoice.php

```
### description of the provided by the property of the provided by the provide
```

```
// Cotlect parts data

const parts = [];

$(`.part.item').each(function() {
    const partid = $(this).find('.edit-part.btn').data('part.id');
    const partid = $(this).find('.part.desc').text().trim();
    const parteser = $(this).find('.part.desc').text().trim();
    const picesePurch = $(this).find('.part.desc').text().replace('pices', '').replace('per pices', '').trim();
    const priceBulk = $(this).find('.price.tem.nth.child(2) span').text().replace('t', '').replace('bulk', '').trim();
    const sellingPrice = $(this).find('.selling.price span').text().replace('t', '').replace('selling price', '').trim();

parts.push({
    partId: partId,
    partBesc,
    picesePurch: picesePurch,
    priceBulk picesePurch,
    priceBulk picesBurch,
    priceBulk picesBurch

}

// Disable submit button and show loading state

const submitth = $(this).find('button(type="submit")');

const originalBirlext = submitth.html();

submitthn.prop('disabled', true).html('<i class="fas fa-spinner fa-spin">
// Submitthn.prop('disabled', true).h
```

4.5 Example Snippet 5(Examples of how to insert a new part into the database)

HTML code example for a form to delete a job card.

Job_card_view.php

```
div class-"modal fade" id="deleteModal" tabindex="-1" role="dialog" aria-labelledby="deleteModallabel" aria-hidden="true
   <div class="modal-dialog" role="document"</pre>
       <h5 class="modal-title" id="deleteModalLabel">Delete Job Card</h5>
                <div class="modal-body">
                What would you like to do with the parts used in this job card?
                     <h6>Parts Used:</h6>
                              <thead>
                                       Quantity
                                       Return to Stock
                              <?php foreach ($parts as $part): ?>
                                       <?php echo htmlspecialchars(string: $part['PartDesc']); ?>
<?php echo htmlspecialchars(string: $part['PiecesSold']); ?>

                                                <input type="checkbox" class="custom-cuekwoty"
id="return_<?php echo $part['PartID']; ?>"
    data-part-id="<?php echo $part['PartID']; ?>"
    data-quantity="<?php echo $part['Pieces5old']; ?>">
<label class="custom-control-label" for="return_<?php echo $part['PartID']; ?>"></label>
                                  <?php endforeach; ?>
```

JavaScript code example using AJAX to send form data to the back-end.

4.6 Example Snippet 6(Examples of how to insert a new part into the database)

HTML code example for a form to print an invoice.

PrintInvoice.php

```
LEFT JOUN carassoc ca ON car.LicenseNr - ca.LicenseNr
LEFT JOUN customers C ON ca.CustomerID - c.CustomerID
LEFT JOUN commitments pro Not .CustomerID - c.CustomerID
LEFT JOUN emails e ON c.CustomerID - e.CustomerID
LEFT JOUN emails e ON c.CustomerID - e.CustomerID
MERE [.].JoiD - ?
GROW BY .J.obID ?;

Statt - Spdo->prepare(unry Ssql);
Statt->sexecute(planes: [Sjobid]);
SjobCard - Statt->fetch(code: POD:EEICH_ASSOC);

// Get parts used in this job
SpartsSql - StatECT p.PartDesc, jp.PiecesSold, jp.PricePerPiece, p.Vat
FROM jobcardparts jp
JOIN parts p ON jp.PartID - p.PartID
WHERE [.].JoiD - ?'
SpartsStat - Spdo->prepare(unry SpartsSql);
SportsStat - SpartStatt - Spdo->prepare(unry SpartsSql);
SportsStat - Spdo->prepare(unry SpartsSql);
SportsStat - Spdo->prepare(unry SpartSql);
SportsStat - SpartStatt - Spdo->prepare(unry SpartSql);
SportsStat - Spdo->prepare(unry SpartSql);
SportsStat - SpartStatt - Spdo-Jprepare(unry SpartSql);
Sports - SpartStatt - Spdo-Jprepare(unry SpartSql);
Sports - SpartStatt - Spdo-Jprepare(unry SpartSql);
Ssubtotal - 6;
Statutal - 6;
Statutal - 5;
Statutal - SpartStatt - Spdo-Jprepare(unry SpartSql);
Statutal - Subtotal + Spdo-Jprepare(unry SpartSql);
SincertStat - Spdo->prepare(unry SpartSql);
SincertStatt - Spdo->prepare(unry SpartSql);
SincertStatt - Spdo->prepare(unry SpartSql);
SincertStatt - Spdo->prepare(unry SpartSql);
```

```
SinsertStat - Spoto-prepare(town, SinsertSq1);
SinsertStat - Spoto-prepare(town, StotalVat, Stotal);
SinsertStat - Spoto-prepare(town, StotalVat, Stotal);
SinstStat - Spoto-prepare(town, StotalVat, Stotal);
SinsStat - Spoto-prepare(town, StinsSq1);
SinsStat - Spoto-prepare(town, StinsSq1);
SinsStat - Spoto-prepare(town, StinsSq1);
SinsStat-seccute(parass [SjobId, SinvoiceId]);

// Commit transaction
Spoto-round();
Spoto-ro
```

```
.totals table {f [}
                      width: 100%;
                 .totals table td {
                       padding: 5px;
                  .total-row {
   font-weight: bold;
   font-size: 1.2em;
                       margin-top: 50px;
                       padding-top: 20px;
border-top: 1px solid #eee;
                      text-align: center;
font-size: 0.9em;
color: #666;
      <script>
          window.onload = function() {
                window.print();
                 window.onafterprint = function() {
                     window.close();
                };
// Also close if user cancels print dialog
setTimeout(function() {
   window.close();
</head>
<body>
           <div class="company-info">
     <img src="../../assets/logo.png" alt="Company Logo" style="max-width: 200px;">
     Mobile Garage Larnaca<br>
```

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4.7 Example Snippet 7(Examples of how to insert a new part into the database)

Code for connecting to the database.

5. TEST CASES

5.1 Test Case Selection

5.1.1 Approach Used:

- Black Box Testing: For UI and form validations without looking at the source code.
- **Glass Box Testing:** For internal logic validation (e.g., token expiry, password hashing, and SQL execution).

5.1.2 Selection Criteria:

- Equivalence Partitioning for valid vs. invalid data input.
- Boundary Value Analysis for edge cases (empty fields, very long inputs).
- Code Path Coverage in unit tests to hit all logical branches.

5.2 Test Cases

5.2.1 Feature 1: User Acess

Functionality	Input	Expected Output	Actual Output
Validate Login Credentials	Identifier: user@example.com Password: test123	Login successful	User data returned and session started
Create New User	Username: newuser Email: new@example.com Password: pass123 Question ID: 1 Answer: dog	New user registered in the database	User created successfully
Create Reset Token	Identifier: user@example.com	Reset token is generate d and stored with expiry	Token returned and stored correctly

Validate Reset Token and Update Password	Token: validtoken123 New Password: newpass	Password updated in the database	Password successfully updated and token marked used
Validate Security Answer	Identifier: user@example.com _Question ID: 1 Answer: dog	User is validated and allowed to reset password	Correct user returned
Verify Admin Status	Identifier: admin@example.com	Returns true if user is admin	true returned if admin

5.2.2 Feature 2: User Management

Functionality	Input	Expected Output	Actual Output
Insert a new user into the system	Username: testuser Password: test123 Email: testuser@example.c om _Admin: No Security Q ID: 1 Security Answer: Blue	User added successfully, success message in session	User added, redirected with session message
Handle missing input	Username: (empty) Password: test123 Email: test@example.com	Error message: Failed to add user	Redirected with "Failed to add user." message
Delete an existing user	Username: testuser	User deleted successfully,	Deleted and redirected with success message

		redirect with session message	
Update user information	Username: testuser Email: new@example.com Admin: Yes	User updated successfully	User updated, session shows success message
Update user and change password	Username: testuser New Password: pass456	Password hashed and updated in DB	Password updated, verified with hash in DB
Prevent injection in input fields	Username: test' OR '1'='1	Sanitized input; query fails or does not return extra data	Query blocked, no injection effect

5.2.3 Feature 3: Job Card Management

Functionality	Input	Expected Output	Actual Output
Create a job card for a car that does not yet exist	Registration: ABC123 VIN: TEMP_1234 Customer: John Date: today Parts: Brake pad (Qty: 2) Photos: 2 images	New car inserted in cars table Job card saved Photos uploaded Session message: "Job card saved successfully!"	All data inserted, success message displayed
Create a job card linked to an existing car	Registration: XYZ789 (already in DB) Customer: Jane Job Report: OK	Job card created without creating new car record	Success, job card linked to existing car
Validate required fields	Registration: (empty) Customer: Bob	Error: "Registration plate is required"	Error message shown and user redirected
Add multiple parts with quantities and pricing	Parts: Brake pad (Qty: 2, Price: 20)	Job card stores part IDs, prices, and quantities	Part details stored and shown in job report

	Oil filter (Qty: 1, Price: 15)		
Update an existing job card	Job ID: 12 Change: jobEndDate and additionalCosts	Updates saved, old data replaced	Updates reflected, success message shown
Delete a job card by ID	Job Card ID: 45	Job card deleted from DB	Success message in session

5.2.4 Feature 4: Parts Management

Functionality	Input	Expected Output	Actual Output
Create a new part linked to an existing supplier	Description: "Brake Pad", PriceBulk: 10.5, SellPrice: 20.5, Supplier: "ABC Inc.	Part created successfully and linked to existing supplier	Success, part linked to existing supplier "ABC Inc."
Validate required fields for part creation	Description: (empty), PriceBulk: 10.5, SellPrice: 20.5, Supplier: "ABC Inc."	Error: "Part description is required"	Error message shown and user redirected
Ensure the part is linked to a valid supplier	Description: "Brake Pad", PriceBulk: 10.5, SellPrice: 20.5, Supplier: (non- existent)	Error: "Supplier does not exist"	Error message shown and user redirected
Update part details	PartID: 1, Description: "Brake Pad", PriceBulk: 12.0, SellPrice: 22.0, Supplier: "XYZ Ltd."	Part updated successfully	Success, part updated with new details

5.2.5 Feature 5: Customer Management

Functionality	Input	Expected Output	Actual Output
Add a new customer to the database	First Name: "John", Last Name: "Doe", Company: "ABC Corp", Address: ["123 Elm St"], Phone: ["555-1234"], Email: ["john.doe@example.co m"]	Success: Customer added with ID and all details stored in the database	Customer added successfully, redirected to the customer overview page
Validate required fields for adding a customer	First Name: (empty), Last Name: "Doe", Company: "ABC Corp", Address: ["123 Elm St"], Phone: ["555-1234"], Email: ["john.doe@example.co m"]	Error: "First name is required"	Error message shown: "First name is required", user redirected to the form page
Update existing customer information	Customer ID: 1, First Name: "John", Last Name: "Doe", Company: "XYZ Ltd", Address: ["456 Oak St"], Phone: ["555-6789"], Email: ["john.doe@xyz.com"]	Success: Customer information updated in the database	Customer updated successfully, redirected to the customer overview page
Delete a customer from the database and all related information	Customer ID: 1	Success: Customer deleted from the database, along with all associated records (addresses, phone numbers, emails)	Customer deleted successfully, redirected to the customer list page

5.2.6 Feature 6: Customer Management

Functionality	Input	Expected Output	Actual Output
Add a new customer to the database	First Name: "John", Last Name: "Doe", Company: "ABC Corp", Address: ["123 Elm St"], Phone:	Success: Customer added with ID and all details stored in the database	Customer added successfully, redirected to the

	["555-1234"], Email: ["john.doe@example.co m"]		customer overview page
Validate required fields for adding a customer	First Name: (empty), Last Name: "Doe", Company: "ABC Corp", Address: ["123 Elm St"], Phone: ["555-1234"], Email: ["john.doe@example.co m"]	Error: "First name is required"	Error message shown: "First name is required", user redirected to the form page
Update existing customer information	Customer ID: 1, First Name: "John", Last Name: "Doe", Company: "XYZ Ltd", Address: ["456 Oak St"], Phone: ["555-6789"], Email: ["john.doe@xyz.com"]	Success: Customer information updated in the database	Customer updated successfully, redirected to the customer overview page
Delete a customer from the database and all related information	Customer ID: 1	Success: Customer deleted from the database, along with all associated records (addresses, phone numbers, emails)	Customer deleted successfully, redirected to the customer list page

5.2.7 Feature 7: Accounting Management

Functionality	Input	Expected Output	Actual Output
Add a new extra expense	Description: "Towing service" Expense: 75.00 DateCreated: (not provided, defaults to today's date)	Success: Expense added with ID and details stored in the database	Extra expense added successfully, success message stored in session
Missing description	Description: (empty) Expense: 50.00	Error: "Description is required. Please provide a valid description."	Error message shown

Missing expense amount	Description: "Parts cost" Expense: (empty)	Error: "Expense amount is required. Please provide a valid amount."	Error message shown
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5.2.8 Feature 8: Invoice Management

Functionality	Input	Expected Output	Actual Output
Add a new supplier	Name: "Acme Corp", Email: "acme@mail.com"	Supplier added to database and shown in list	Supplier successfully added and visible
Edit supplier details	Update Email: "info@acme.com" for "Acme Corp"	Supplier info updated in database	Email updated and reflected in UI
Delete a supplier	Click delete on "Acme Corp"	Supplier removed from database	Deletion successful, supplier no longer listed
Validate fields on invoice upload	Invoice Number: (empty), File: PDF	Error: "Invoice number is required"	Error shown, form not submitted

5.2.9 Feature 9: Car Management

Functionality	Input	Expected Output	Actual Output
Adding a new car record	LicenseNr (empty) Brand (empty) Model (empty) VIN (empty)	Error: "License number is required." Error: "Brand is required." Error: "Model is required." Error: "VIN is required."	Error messages displayed for each missing field when attempting to submit the form with empty fields, and user is redirected to the form page.

6. APPENDICES

Below is the updated Gantt chart of the team.

Specifications Phase

▼ Specifications	30 Jan 2025	05 Feb 2025	6 days	All
1. Document Preparation	30 Jan 2025	30 Jan 2025	1 day	Jorgos X.
▼ 2. Gane and Sarsen Methodology	31 Jan 2025	05 Feb 2025	4.8 days	All
2.1 Data Flow Diagrams	31 Jan 2025	31 Jan 2025	1 day	All
2.2 Data Flows	31 Jan 2025	31 Jan 2025	0.9 days	All
2.3 Logic Of Processes	31 Jan 2025	01 Feb 2025	0.9 days	All
2.4 Data Stores	31 Jan 2025	31 Jan 2025	0.9 days	All
2.5 Physical Resources	03 Feb 2025	03 Feb 2025	0.7 days	All
2.6 Input/Output Specifications	03 Feb 2025	03 Feb 2025	1 day	Jorgos X.
2.7 Sizing	03 Feb 2025	03 Feb 2025	0.27 days	Gabriel
2.8 Hardware Requirements	03 Feb 2025	03 Feb 2025	0.7 days	Kyriakos
	04 Feb 2025	04 Feb 2025	1 day	Giorgos A.,Kyriakos
	05 Feb 2025	05 Feb 2025	0.4 days	Antonis
2.11 State Diagrams	05 Feb 2025	05 Feb 2025	0.4 days	Gabriel
3. Entity-Relationship Diagram	04 Feb 2025	05 Feb 2025	1.2 days	Gabriel
4. Software Project Management Plan	05 Feb 2025	05 Feb 2025	1 day	Jorgos X.

Design Phase

II	▼ Design	06 Feb 2025	13 Feb 2025	7 days	All
II	1. Document Preparation	06 Feb 2025	06 Feb 2025	0.5 days	Stylianos
II	▼ 2. Object Oriented System Design	06 Feb 2025	13 Feb 2025	7 days	All
II	2.1 Detailed Design	08 Feb 2025	11 Feb 2025	3 days	All
II	2.2 Detailed Class Diagram	08 Feb 2025	11 Feb 2025	3 days	All
II	2.3 Interaction Diagrams	06 Feb 2025	08 Feb 2025	3 days	All
11	2.4 Clients Of Objects	11 Feb 2025	13 Feb 2025	3 days	All

Implementation Phase

■ Implementation	17 Feb 2025	05 Apr 2025	42 days	All
	17 Feb 2025			
1. Database Implementation		20 Feb 2025	4 days	Gabriel, Giorgos A.
 2. Implementation of Functions 	21 Feb 2025	02 Apr 2025	35 days	All
▼ 2.1 Customer Management	21 Feb 2025	27 Feb 2025	6 days	Antonis,Gabriel,Giorgos A.,Jorgos X.,Kyri
▼ 2.1.1 Add New Customer	21 Feb 2025	27 Feb 2025	6 days	Kyriakos,Gabriel
1 2.1.1.1 Input	21 Feb 2025	21 Feb 2025	1 day	
2.1.1.2 Processing	22 Feb 2025	25 Feb 2025	3 days	
2.1.1.3 Output	26 Feb 2025	26 Feb 2025	1 day	
2.1.1.4 Test	27 Feb 2025	27 Feb 2025	1 day	
▼ 2.2.2 Print Customer List	21 Feb 2025	26 Feb 2025	5 days	Giorgos A.,Kyriakos,Gabriel
2.2.2.1 Input	21 Feb 2025	21 Feb 2025	1 day	
2.2.2.2 Processing	22 Feb 2025	24 Feb 2025	2 days	
2.2.2.3 Output	25 Feb 2025	25 Feb 2025	1 day	
2.2.2.4 Test	26 Feb 2025	26 Feb 2025	1 day	
▼ 2.3.3 Edit Customer	21 Feb 2025	27 Feb 2025	6 days	Gabriel,Kyriakos
2.3.3.1 Input	21 Feb 2025	21 Feb 2025	1 day	
2.3.3.2 Processing	22 Feb 2025	25 Feb 2025	3 days	
2.3.3.3 Output	26 Feb 2025	26 Feb 2025	1 day	
2.3.3.4 Test	27 Feb 2025	27 Feb 2025	1 day	
▼ 2.4.4 Delete Customer	21 Feb 2025	26 Feb 2025	5 days	Antonis,Kyriakos,Gabriel
2.4.4.1 Input	21 Feb 2025	21 Feb 2025	1 day	
2.4.4.2 Processing	22 Feb 2025	24 Feb 2025	2 days	
2.4.4.3 Output	25 Feb 2025	25 Feb 2025	1 day	
1 2.4.4.4 Test	26 Feb 2025	26 Feb 2025	1 day	
■ 2.5.5 Print Customer	21 Feb 2025	25 Feb 2025	4 days	Jorgos X.,Gabriel,Kyriakos
1 2.5.5.1 Input	21 Feb 2025	21 Feb 2025	1 day	
2.5.5.2 Processing	22 Feb 2025	22 Feb 2025	1 day	
2.5.5.3 Output	24 Feb 2025	24 Feb 2025	1 day	
2.5.5.4 Test	25 Feb 2025	25 Feb 2025	1 day	
▼ 2.2 User Management	22 Feb 2025	03 Mar 2025	8 days	Stylianos, Gabriel
▼ 2.2.1 Add New User	22 Feb 2025	26 Feb 2025	3.5 days	Stylianos
2.2.1.1 Input	22 Feb 2025	22 Feb 2025	0.5 days	
2.2.1.2 Processing	22 Feb 2025	24 Feb 2025	2 days	
2.2.1.3 Output	25 Feb 2025	25 Feb 2025	1 day	
2.2.1.4 Test	26 Feb 2025	26 Feb 2025	0.5 days	
▼ 2.2.2 Edit User	27 Feb 2025	01 Mar 2025	3 days	Stylianos
2.2.2.1 Input	27 Feb 2025	27 Feb 2025	0.5 days	
2.2.2.2 Processing	28 Feb 2025	28 Feb 2025	1 day	
1 2.2.2.3 Output	01 Mar 2025	01 Mar 2025	1 day	
2.2.2.4 Test	01 Mar 2025	01 Mar 2025	0.5 days	
▼ 2.2.3 Delete User	28 Feb 2025	03 Mar 2025	3 days	Gabriel
2.2.3.1 Input	28 Feb 2025	28 Feb 2025	0.5 days	
2.2.3.2 Processing	01 Mar 2025	01 Mar 2025	1 day	
2.2.3.3 Output	03 Mar 2025	03 Mar 2025	1 day	

II — 0.0 Parts Massacranet	26 Feb 2025	07 Mar 2025	Outeur	Antonio Giorno A. Joseph V. Koninko
▼ 2.3 Parts Management			9 days	Antonis,Giorgos A.,Jorgos X.,Kyriakos
▼ 2.3.1 Add New Part	26 Feb 2025	03 Mar 2025	5 days	Jorgos X.
2.3.1.1 Input	26 Feb 2025	26 Feb 2025	0.5 days	
2.3.1.2 Processing	27 Feb 2025	01 Mar 2025	3 days	
2.3.1.3 Output	03 Mar 2025	03 Mar 2025	1 day	
2.3.1.4 Test	03 Mar 2025	03 Mar 2025	0.5 days	
■ 2.3.2 Print Part List	04 Mar 2025	07 Mar 2025	4 days	Jorgos X.
1 2.3.2.1 Input	04 Mar 2025	04 Mar 2025	0.5 days	
2.3.2.2 Processing	05 Mar 2025	06 Mar 2025	2 days	
Ⅱ 2.3.2.3 Output	07 Mar 2025	07 Mar 2025	1 day	
2.3.2.4 Test	07 Mar 2025	07 Mar 2025	0.5 days	
■ 2.3.3 Edit Part	27 Feb 2025	03 Mar 2025	4 days	Giorgos A., Jorgos X.
2.3.3.1 Input	27 Feb 2025	27 Feb 2025	0.5 days	
2.3.3.2 Processing	28 Feb 2025	01 Mar 2025	2 days	
2.3.3.3 Output	03 Mar 2025	03 Mar 2025	1 day	
2.3.3.4 Test	03 Mar 2025	03 Mar 2025	0.5 days	
■ 2.3.4 Delete Part	27 Feb 2025	03 Mar 2025	4 days	Antonis,Jorgos X.
2.3.4.1 Input	27 Feb 2025	27 Feb 2025	0.5 days	Allonia, origos A.
2.3.4.2 Processing	28 Feb 2025	01 Mar 2025		
2.3.4.2 Processing	03 Mar 2025	03 Mar 2025	2 days 1 day	
	03 Mar 2025	03 Mar 2025		
	28 Feb 2025	03 Mar 2025 03 Mar 2025	0.5 days	Kadalaa laasa V
▼ 2.3.5 Print Part	28 Feb 2025	03 Mar 2025	3 days	Kyriakos,Jorgos X.
2.3.5.1 Input	28 Feb 2025	28 Feb 2025	0.5 days	
2.3.5.2 Processing	01 Mar 2025	01 Mar 2025	1 day	
2.3.5.3 Output	03 Mar 2025	03 Mar 2025	1 day	
2.3.5.4 Test	03 Mar 2025	03 Mar 2025	0.5 days	
▼ 2.4 Cars Management	10 Mar 2025	29 Mar 2025	18 days	Stylianos
▼ 2.4.1 Add Car	10 Mar 2025	14 Mar 2025	5 days	
2.4.1.1 Input	10 Mar 2025	10 Mar 2025	0.5 days	
2.4.1.2 Processing	11 Mar 2025	13 Mar 2025	3 days	
2.4.1.3 Output	14 Mar 2025	14 Mar 2025	1 day	
2.4.1.4 Test	14 Mar 2025	14 Mar 2025	0.5 days	
▼ 2.4.2 Edit Car	15 Mar 2025	20 Mar 2025	5 days	
Ⅱ 2.4.2.1 Input	15 Mar 2025	15 Mar 2025	0.5 days	
2.4.2.2 Processing	17 Mar 2025	19 Mar 2025	3 days	
2.4.2.3 Output	20 Mar 2025	20 Mar 2025	1 day	
2.4.2.4 Test	20 Mar 2025	20 Mar 2025	0.5 days	
▼ 2.4.3 Delete Car	21 Mar 2025	25 Mar 2025	4 days	
2.4.3.1 Input	21 Mar 2025	21 Mar 2025	0.5 days	
2.4.3.2 Processing	22 Mar 2025	24 Mar 2025	2 days	
2.4.3.3 Output	25 Mar 2025	25 Mar 2025	1 day	
2.4.3.4 Test	25 Mar 2025	25 Mar 2025	0.5 days	
■ 2.4.4 Print Car	26 Mar 2025	29 Mar 2025	4 days	
2.4.4.1 Input	26 Mar 2025	26 Mar 2025	0.5 days	
	EO IVIDI ZUZU	EO IVIGII EUEU	o.o uaya	

2.4.4.2 Processing	27 Mar 2025	28 Mar 2025	2 days	
2.4.4.3 Output	27 Mar 2025 29 Mar 2025	29 Mar 2025	1 day	
2.4.4.4 Test	29 Mar 2025	29 Mar 2025	0.5 days	
▼ 2.5 User Access	10 Mar 2025	01 Apr 2025	20 days	Kyriakos
▼ 2.5.1 Login	10 Mar 2025	15 Mar 2025	6 days	
2.5.1.1 Input	10 Mar 2025	11 Mar 2025	2 days	
2.5.1.2 Processing	12 Mar 2025	14 Mar 2025	3 days	
2.5.1.3 Output	14 Mar 2025	15 Mar 2025	2 days	
2.5.1.4 Test	15 Mar 2025	15 Mar 2025	1 day	
▼ 2.5.2 Forgot Password	17 Mar 2025	24 Mar 2025	7 days	
2.5.2.1 Input	17 Mar 2025	18 Mar 2025	2 days	
2.5.2.2 Processing	18 Mar 2025	22 Mar 2025	5 days	
Ⅱ 2.5.2.3 Output	22 Mar 2025	24 Mar 2025	2 days	
Ⅱ 2.5.2.4 Test	24 Mar 2025	24 Mar 2025	1 day	
	25 Mar 2025	01 Apr 2025	7 days	
	25 Mar 2025	26 Mar 2025	2 days	
2.5.3.2 Processing	26 Mar 2025	28 Mar 2025	3 days	
	29 Mar 2025	31 Mar 2025	2 days	
Ⅱ 2.5.3.4 Test	31 Mar 2025	01 Apr 2025	2 days	
	10 Mar 2025	02 Apr 2025	20.5 days	Jorgos X.
▼ 2.6.1 Add New Invoice	10 Mar 2025	17 Mar 2025	7 days	
2.6.1.1 Input	10 Mar 2025	11 Mar 2025	2 days	
11 2.0.1.1 input	10 Mai 2025	11 Mai 2025	2 days	
0.040 Browning				
2.6.1.2 Processing	12 Mar 2025	15 Mar 2025	4 days	
2.6.1.3 Output	17 Mar 2025	17 Mar 2025	1 day	
2.6.1.3 Output 2.6.1.4 Test	17 Mar 2025 17 Mar 2025	17 Mar 2025 17 Mar 2025	1 day 1 day	
2.6.1.3 Output 2.6.1.4 Test ▼ 2.6.2 Print Invoice List	17 Mar 2025 17 Mar 2025 18 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025	1 day 1 day 4 days	
2.6.1.3 Output 2.6.1.4 Test	17 Mar 2025 17 Mar 2025	17 Mar 2025 17 Mar 2025	1 day 1 day	
2.6.1.3 Output 2.6.1.4 Test ▼ 2.6.2 Print Invoice List	17 Mar 2025 17 Mar 2025 18 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025	1 day 1 day 4 days	
2.6.1.3 Output 2.6.1.4 Test ▼ 2.6.2 Print Invoice List 2.6.2.1 Input	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025	1 day 1 day 4 days 0.5 days	
2.6.1.3 Output 2.6.1.4 Test ▼ 2.6.2 Print Invoice List 2.6.2.1 Input	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025	1 day 1 day 4 days 0.5 days 2 days	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 21 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days	
2.6.1.3 Output 2.6.1.4 Test	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days	
2.6.1.3 Output 2.6.1.4 Test	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 22 Mar 2025 25 Mar 2025 26 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 1 day 2 days 1 day 2 days	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025 28 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 1 day 2 days	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 25 Mar 2025 26 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 1 day 1 day 1 day 1 day	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 1 day 1 day 2 days	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 1 day 2 days 1 day 3 days 1 day 1 day	
2.6.1.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 27 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 2 days 1 day 2 days 1 day 2 days 2 days	
2.6.1.3 Output 2.6.1.4 Test 2.6.2.1 input 2.6.2.2 Print Invoice List 2.6.2.2 Processing 2.6.2.3 Output 2.6.2.4 Test ✓ 2.6.3 Edit Invoice 2.6.3.1 input 2.6.3.2 Processing 2.6.3.3 Output 2.6.3.4 Test ✓ 2.6.4 Delete Invoice 2.6.3.4 Test ✓ 2.6.4 Delete Invoice 2.6.4.1 input 2.6.4.2 Processing 2.6.4.3 Output 2.6.4.3 Output 2.6.4.3 Output 2.6.4.3 Output	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 27 Mar 2025 28 Mar 2025 28 Mar 2025	17 Mar 2025 17 Mar 2025 21 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 2 days 1 day 2 days 1 day 2 days 1 day 2 days 1 day 3 days 1 day 3 days 1 day 3 days 1 day 3 days 1 day	
2.6.1.3 Output 2.6.1.4 Test √ 2.6.2 Print Invoice List 2.6.2.1 Input 2.6.2.2 Processing 2.6.2.3 Output 2.6.3.4 Est √ 2.6.3 Edit Invoice 2.6.3.1 Input 2.6.3.2 Processing 2.6.3.3 Output 2.6.3.4 Test √ 2.6.4 Delete Invoice 2.6.4.1 Input 2.6.4.2 Processing 2.6.4.3 Output 2.6.4.4 Test	17 Mar 2025 18 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 1 day 2 days 1 day 2 days 1 day 2 days 1 day 1 day 3 days 0.5 days 2 days 1 day 0.5 days	
2.6.1.3 Output 2.6.1.4 Test 2.6.2.1 Input 2.6.2.2 Print Invoice List 2.6.2.2 Processing 2.6.2.3 Output 2.6.2.4 Test ▼ 2.6.3 Edit Invoice 2.6.3.1 Input 2.6.3.1 Input 2.6.3.2 Processing 2.6.3.3 Output 2.6.3.4 Test ▼ 2.6.4 Delete Invoice 2.6.4.1 Input 2.6.4.2 Processing 2.6.4.2 Processing 2.6.4.3 Output 2.6.4.4 Processing 2.6.4.3 Output 2.6.4.4 Test ▼ 2.6.5 Print Invoice 2.6.5.1 Input 2.6.5.5 Input	17 Mar 2025 18 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025 29 Mar 2025 29 Mar 2025 29 Mar 2025	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025	1 day 1 day 1 day 2 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 2 days 1 day 2 days 1 day 2 days 1 day 1 day 3 days 0.5 days 2 days 1 day 0.5 days 3.5 days 3.5 days	
2.6.1.3 Output 2.6.1.4 Test √ 2.6.2 Print Invoice List 2.6.2.1 Input 2.6.2.2 Processing 2.6.2.3 Output 2.6.3.4 Est √ 2.6.3 Edit Invoice 2.6.3.1 Input 2.6.3.2 Processing 2.6.3.3 Output 2.6.3.4 Test √ 2.6.4 Delete Invoice 2.6.4.1 Input 2.6.4.2 Processing 2.6.4.3 Output 2.6.4.3 Output 2.6.4.3 Output 2.6.4.4 Test √ 2.6.5 Print Invoice 2.6.4.4 Test √ 2.6.5 Print Invoice 2	17 Mar 2025 18 Mar 2025 18 Mar 2025 18 Mar 2025 19 Mar 2025 21 Mar 2025 21 Mar 2025 22 Mar 2025 22 Mar 2025 24 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 27 Mar 2025 28 Mar 2025 28 Mar 2025 29 Mar 2025 29 Mar 2025 29 Mar 2025 29 Mar 2025	17 Mar 2025 17 Mar 2025 18 Mar 2025 18 Mar 2025 20 Mar 2025 21 Mar 2025 21 Mar 2025 25 Mar 2025 25 Mar 2025 26 Mar 2025 26 Mar 2025 26 Mar 2025 28 Mar 2025	1 day 1 day 4 days 0.5 days 2 days 1 day 0.5 days 3 days 1 day 2 days 1 day 2 days 1 day 2 days 1 day 4 day 5 days 5 days 5 days 5 days 7 day 8 days 8 days 9 days	

II	2.6.5.4 Test	02 Apr 2025	02 Apr 2025	0.5 days	
II	▼ 2.7 Jobs Management	10 Mar 2025	02 Apr 2025	21 days	Antonis
II	▼ 2.7.1 Add New Job Card	10 Mar 2025	17 Mar 2025	7 days	
II	2.7.1.1 Input	10 Mar 2025	10 Mar 2025	1 day	
II	2.7.1.2 Processing	11 Mar 2025	14 Mar 2025	4 days	
II	2.7.1.3 Output	15 Mar 2025	15 Mar 2025	1 day	
II	2.7.1.4 Test	17 Mar 2025	17 Mar 2025	1 day	
II	▼ 2.7.2 Print Job Card List	18 Mar 2025	20 Mar 2025	3 days	
II	2.7.2.1 Input	18 Mar 2025	18 Mar 2025	0.5 days	
II	2.7.2.2 Processing	19 Mar 2025	20 Mar 2025	2 days	
II	2.7.2.3 Output	20 Mar 2025	20 Mar 2025	1 day	
II	2.7.2.4 Test	20 Mar 2025	20 Mar 2025	0.5 days	
II	▼ 2.7.3 Edit Job Card	21 Mar 2025	24 Mar 2025	3 days	
II	2.7.3.1 Input	21 Mar 2025	21 Mar 2025	0.5 days	
II	2.7.3.2 Processing	22 Mar 2025	24 Mar 2025	2 days	
II	2.7.3.3 Output	24 Mar 2025	24 Mar 2025	1 day	
II	2.7.3.4 Test	24 Mar 2025	24 Mar 2025	0.5 days	
II	▼ 2.7.4 Delete Job Card	25 Mar 2025	28 Mar 2025	4 days	
II	2.7.4.1 Input	25 Mar 2025	25 Mar 2025	0.5 days	
II	2.7.4.2 Processing	26 Mar 2025	27 Mar 2025	2 days	
II	2.7.4.3 Output	28 Mar 2025	28 Mar 2025	1 day	
II	2.7.4.4 Test	28 Mar 2025	28 Mar 2025	0.5 days	
II	▼ 2.7.5 Print Job Card	29 Mar 2025	02 Apr 2025	4 days	
II	2.7.5.1 Input	29 Mar 2025	29 Mar 2025	0.5 days	
II	2.7.5.2 Processing	01 Apr 2025	02 Apr 2025	2 days	
II	2.7.5.3 Output	02 Apr 2025	02 Apr 2025	1 day	
II	2.7.5.4 Test	02 Apr 2025	02 Apr 2025	0.5 days	
II	▼ 2.8 Acounting Management	10 Mar 2025	02 Apr 2025	21 days	Giorgos A., Gabriel
II	▼ 2.8.1 View Job Cards - Details	10 Mar 2025	17 Mar 2025	7 days	Giorgos A.
II	2.8.1.1 Input	10 Mar 2025	10 Mar 2025	1 day	
II	2.8.1.2 Processing	11 Mar 2025	14 Mar 2025	4 days	
II	2.8.1.3 Output	15 Mar 2025	15 Mar 2025	1 day	
II	2.8.1.4 Test	17 Mar 2025	17 Mar 2025	1 day	
II.	▼ 2.8.2 View Parts - Details	10 Mar 2025	15 Mar 2025	6 days	Gabriel
H	2.8.2.1 Input	10 Mar 2025	10 Mar 2025	1 day	
11	2.8.2.2 Processing	11 Mar 2025	13 Mar 2025	3 days	
H	2.8.2.3 Output	13 Mar 2025	14 Mar 2025	2 days	
H	2.8.2.4 Test	15 Mar 2025	15 Mar 2025	1 day	
Î	▼ 2.8.3 View Invoices	17 Mar 2025	21 Mar 2025	4.5 days	Gabriel
11	2.8.3.1 Input	17 Mar 2025	17 Mar 2025	0.5 days	
H.	2.8.3.2 Processing	18 Mar 2025	20 Mar 2025	3 days	
II	2.8.3.3 Output	20 Mar 2025	20 Mar 2025	1 day	
II	2.8.3.4 Test	21 Mar 2025	21 Mar 2025	0.5 days	
11	▼ 2.8.4 Create Report for Finances	21 Mar 2025	25 Mar 2025	4 days	Gabriel

II	2.8.4.1 Input	21 Mar 2025	21 Mar 2025	1 day	
II	2.8.4.2 Processing	22 Mar 2025	24 Mar 2025	2 days	
II	2.8.4.3 Output	25 Mar 2025	25 Mar 2025	1 day	
II	2.8.4.4 Test	25 Mar 2025	25 Mar 2025	1 day	
II	▼ 2.8.5 Create Report for List of Job Cards - Monthly/Yearly	26 Mar 2025	28 Mar 2025	3 days	Gabriel
II	2.8.5.1 Input	26 Mar 2025	26 Mar 2025	1 day	
II	2.8.5.2 Processing	27 Mar 2025	28 Mar 2025	2 days	
II	2.8.5.3 Output	28 Mar 2025	28 Mar 2025	1 day	
11	2.8.5.4 Test	28 Mar 2025	28 Mar 2025	1 day	
	▼ 2.8.6 Create for Single Chosen Job Card	29 Mar 2025	02 Apr 2025	4 days	Gabriel
	2.8.6.1 Input	29 Mar 2025	29 Mar 2025	1 day	
II	2.8.6.2 Processing	31 Mar 2025	01 Apr 2025	2 days	
II	2.8.6.3 Output	02 Apr 2025	02 Apr 2025	1 day	
II	2.8.6.4 Test	02 Apr 2025	02 Apr 2025	1 day	
II	▼ 2.8.7 Create for List of Parts - Monthly/Yearly	17 Mar 2025	21 Mar 2025	5 days	Giorgos A.
II	2.8.7.1 Input	17 Mar 2025	17 Mar 2025	1 day	
II	2.8.7.2 Processing	18 Mar 2025	19 Mar 2025	2 days	
II	2.8.7.3 Output	20 Mar 2025	20 Mar 2025	1 day	
II	2.8.7.4 Test	21 Mar 2025	21 Mar 2025	1 day	
II	▼ 2.8.8 Create Report for Single Chosen Part	22 Mar 2025	25 Mar 2025	3 days	Giorgos A.
II	2.8.8.1 Input	22 Mar 2025	22 Mar 2025	1 day	
	2.8.8.2 Processing	24 Mar 2025	24 Mar 2025	1 day	
II	2.8.8.3 Output	25 Mar 2025	25 Mar 2025	1 day	
H	2.8.8.4 Test	25 Mar 2025	25 Mar 2025	1 day	
II	▼ 2.8.9 Create Report by Month	26 Mar 2025	28 Mar 2025	3 days	Giorgos A.
H	2.8.9.1 Input	26 Mar 2025	26 Mar 2025	1 day	
H	2.8.9.2 Processing	27 Mar 2025	27 Mar 2025	1 day	
H	2.8.9.3 Output	28 Mar 2025	28 Mar 2025	1 day	
II	2.8.9.4 Test	28 Mar 2025	28 Mar 2025	1 day	
II	▼ 2.8.10 Create Report by Year	29 Mar 2025	01 Apr 2025	3 days	Giorgos A.
H	2.8.10.1 Input	29 Mar 2025	29 Mar 2025	1 day	
II	2.8.10.2 Processing	31 Mar 2025	31 Mar 2025	1 day	
II	2.8.10.3 Output	01 Apr 2025	01 Apr 2025	1 day	
	- 2 Caseh	24 Feb 2025	05 Apr 2005	29 days	Antonio Stylianos
	▼ 3. Search	21 Feb 2025 21 Feb 2025	05 Apr 2025 21 Feb 2025	38 days	Antonis,Stylianos
II	3.1 Input	21 Feb 2025 31 Mar 2025		1 day	Stylianos
	3.2 Processing		03 Apr 2025	4 days	Antonis
11	3.3 Output	03 Apr 2025	04 Apr 2025	2 days	Antonis
II	3.4 Test	04 Apr 2025	05 Apr 2025	2 days	Antonis
II	▼ 4. Dashboard	29 Mar 2025	05 Apr 2025	7 days	Stylianos
II	4.1 Input	29 Mar 2025	29 Mar 2025	1 day	
II	4.2 Processing	01 Apr 2025	03 Apr 2025	3 days	
II	4.3 Output	04 Apr 2025	04 Apr 2025	1 day	
II	4.4 Test	04 Apr 2025	05 Apr 2025	2 days	
II	5. Integration and Test	07 Apr 2025	12 Apr 2025	6 days	All
	Installation and Training	14 Apr 2025	18 Apr 2025	5 days	All
	7. Creation of Admin Manual	08 Apr 2025	12 Apr 2025	5 days	All
-	8. Helpfile	03 Apr 2025	04 Apr 2025	2 days	Kyriakos
	о. пецине	03 Apr 2020	04 Apr 2020	2 days	Nyllakos