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COURSE WORK NAME & CODE:

Enterprise Web Software Development–COMP1640

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Individual Report

Team name: Green Gang

MEMBERS:

Name	ID	Roles
Bùi Thiên Chu	001391438	Product owner, Programmer
Phạm Lê Anh Khoa	001391471	Scrum Master, Information architect
Trần Anh Vỹ	001395614	Database designer, Programmer
Trương Vĩ Thắng	001393577	Web designer, Tester
Lý Phước Sang	001391514	Programmer
Lê Vũ Hòa	001391458	Programmer

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1. Introduction to the Project

In today's complex organizational environments, reliable and scalable systems are essential for effective operations. Our Scrum team, known as the "Green Gang," embarked on the ambitious project of creating the "Green Article" system to leverage digital solutions for organizational improvement. Our goal was to showcase not only our technical skills but also our collaborative abilities. The "Green Article" system is a role-based platform designed to facilitate the organization and collection of donations on an annual basis, streamlining the process of submitting and managing contributions. Through iterative cycles of planning, execution, and evaluation using Agile Scrum methodology, our diverse team of experts ensured continuous adaptation to requirements. Clear communication and alignment with project objectives were maintained through strict documentation methods, including sprint backlogs, user stories, and weekly meeting minutes. These procedures fostered team cohesion and helped overcome the challenges of collaborative technological endeavors. This overview sets the stage for a comprehensive analysis of the "Green Article" system's development process, highlighting its unique aspects, implementation approach, and overall impact. Subsequent sections will delve

into implementation details, efficacy assessment, and potential updates to enhance system capabilities.

2. Evaluations

2.1 Product evaluation

- Evaluate the group's website

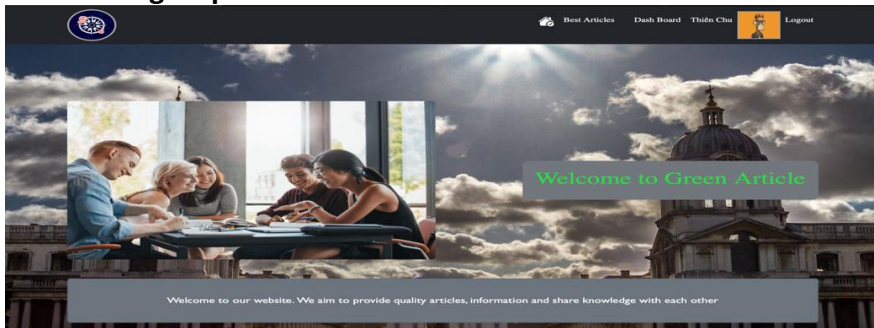


Figure 1 HomePage

Although the "Green Article" system accomplishes its primary operational goals, there are performance discrepancies between its frontend user interface (FE) and backend operations (BE). User happiness and system performance are jeopardized by the frontend's lack of functionality and attractive design, while the backend efficiently handles data and server-side processes, guaranteeing stability and scalability. It is advised to take this into account by doing a thorough frontend redesign that includes user feedback sessions and UI/UX improvements. Prioritizing frontend enhancements without compromising backend dependability is also essential. The solution may improve user experience and competitiveness while satisfying critical operational needs by coordinating frontend and backend development.

-What functions work best I have implemented

Submit your article here

Articles Name: Environment Web3

Description: This is a dapp development environment for blockchain programmers

Image: web3tools-1024x571.png

Document: 1712673251719-1710661064467-COMP1640 Coursework 2023.09.doc

☒ Once you submit your work, it will be reviewed and approved and you agree

Submit

Faculty	Faculty of Information Technology
Academic Years	March 4, 2024
Close Academic Years	March 5, 2025
Close Date Final	April 20, 2024
Resubmit Final	June 5, 2024

Figure 2 Page Submission1

Report information

Articles Name: Environment Web3

Description: This is a dapp development environment for blockchain programmers

Created At: April 25, 2024

Comment:

Status: Reject

View Document

Update

Figure 3 Page Submission2

Student submission Hộp thư đến

comp16402024 03:27
đến tôi, Coordinator, peterkhoa...

Dịch sang Tiếng Việt

Bui Thien Chu Submission at Faculty of Information Technology

Figure 4 GmailSubmission

```
const { FacultyId, AcademicYearsId } = req.params;
if (FacultyId === "1" && AcademicYearsId === "1") {
  return res.status(404).render("error");
}
if (FacultyId && AcademicYearsId === "2") {
  return res.status(404).render("error");
}
const doc_img = req.files;
var doc = [];
doc_img.forEach(function (data) {
  if (data.filename.match(/\.([pP][mP]jpeg)$/)) {
    return image.push(data.filename);
  } else if (data.filename.match(/\.([mM]word|doc|pdf)$/)) {
    return doc.push(data.filename);
  }
});
const { articleName, description, condition } = req.body;
const userId = res.user._id;
console.log(userId);
var name = res.user.name;
try {
  if (!condition && condition === false) {
    return res.status(400).send("must agree to the conditions");
  }
  var newday = new Date();
  var timeDay = newday.getTime();
  var close = await Users.findOne({ _id: userId }).populate({
    path: "faculty",
    populate: { path: "closeDate" },
  });
  console.log(
    "date:",
    close.faculty.closeDate,
    closeDates,
    "end:",
    close.faculty.closeDate,
    finalCloseDates
  );
  var dateclose = close.faculty.closeDate.closeDates;
  var finalclose = close.faculty.closeDate.finalCloseDates;
  var finalcloseTime;
  if (finalclose) {
    finalcloseTime = finalclose.getTime();
  } else {
    finalcloseTime = null;
  }
  console.log(finalclose);
  var datecloseTime;
```

Figure 5 SrcCode

The article submission functionality on the "Green Article" website stores articles directly on the server by using the Multer library. Marketing coordinators receive submitted articles and assess them. Students may browse articles, check their status, read comments, and make modifications within the allotted time before the closing date. Based on database information, the system determines how much time is left before each deadline by calculating departmental closure dates and ultimate closing dates. Student articles are immediately stored on the server via the Multer library and sent to marketing coordinators for review. Coordinators may examine submitted material, article statuses, and comments from students via the Marketing Coordinator site. Throughout the final closure date and closing date period, students are allowed to make revisions to their papers, guaranteeing consistency and high-quality published work.

-Functions continue to be inadequate and subpar.



Figure 6 FeNotGood

The limited integration of frontend (FE) with UX/UI and its reliance on backend (BE) to respond to requests provide a number of issues. Because of this dependence on BE, overall functionality and consistency may suffer when required features are not implemented or FE and BE synchronization is hampered. Additionally, poor user engagement and experience might arise from a passive approach to UX/UI design. Focusing on enhancing interactivity and user interface to improve user engagement and experience, FE must emphasize greater cooperation with BE in order to overcome these difficulties.

2.2 Process evaluation

Using Jira and Agile Scrum techniques, our project review highlights both implementation efficiency and team dynamics opportunities for improvement. We assessed team member communication, process effectiveness, and tool use consistency.

Scrum Application: Although the Scrum framework helped with task management and progress tracking in general, inconsistencies in its application sometimes caused disruptions to workflow and project timetables. One way to strengthen adherence to Scrum processes is to provide frequent Scrum refresher training.

Jira Integration As of Right Now: Even though Jira is an essential project management tool, uneven use of it resulted in inaccurate task tracking and project documentation, which caused delays and poor decision-making. It is suggested that a Jira champion be appointed to oversee the process and that all team members get thorough training.

Current State of Team Communication: Although there were sporadic arguments about project components, the team generally kept up strong communication. This slowed development. We recommend putting structured conflict resolution mechanisms into place and encouraging polite and honest communication to improve consensus-building.

In conclusion, even if the Agile Scrum approach and good communication helped our project, there are still areas that require improvement to assure better project execution and results, such consistent Scrum adoption and better Jira utilization.

2.3 Team evaluation

The team (name, justify, and rate each member, including yourself, in relation to these factors using a spreadsheet; provide textual justification for your ratings).

Members	Evaluation
Bùi Thiên Chu – Product owner, Back-end	Bùi Thiên Chu was a key player in the project, mostly handling product ownership and backend development. His proficiency in backend programming allowed him to surpass project goals in addition to meeting them. Furthermore, his readiness to support colleagues was crucial to the project's accomplishment. Chu should concentrate on honing his strategic planning and delegating abilities to guarantee equitable responsibility distribution and minimize project setbacks in order to further strengthen his contributions.
Phạm Lê Anh Khoa – Scrum Master, Information architect	Scrum master and information architect were two of Phạm Lê Anh Khoa's many important positions in the project. His proactive approach to team management guaranteed efficient operations and prompt support for each member. The project's effectiveness and timeliness were greatly enhanced by Khoa's commitment to regular meetings and continuous assistance. His technological know-how and insightful observations enhanced backend capabilities, underscoring his contributions to the advancement and structure of the project. His proven project management and leadership talents might be further strengthened by developing his backend technical skills.

Trần Anh Vỹ – Database, Programmer	Trần Anh Vỹ, a database expert who concentrated on backend development, was important in the project. The success of the project was greatly aided by Vỹ's skill in connecting databases with backend interfaces, which guaranteed excellent data flow and system operation. Enhancing his understanding of backend technologies might enhance his ability to contribute to projects in the future.
Trương Vĩ Thắng – Tester, Front-end	Trương Vĩ Thắng, a front-end developer and tester, was crucial in spotting mistakes and making recommendations for enhancements, which greatly aided in the project's accomplishment. Even with his crucial contribution, the interface fell short of expectations. Improving front-end design abilities and enforcing more stringent quality control in UI development might lead to better project results and more efficacy in his main position.
Lê Vũ Hòa – Back-end	Expert in both backend technologies, Lê Vũ Hòa, substantially supported the development process. He put in a lot of effort to meet project deadlines, uphold strict code standards, actively participate in product implementation, and provide vital support for backend development. To maximize his future contributions, further training in the newest web technologies and better planning of performance-optimization strategies are recommended.
Lý Phước Sang – Back-end,	Lý Phước Sang, a backend developer, effectively combined technical expertise with innovative design to enhance the project's usability and functionality. His work was essential in improving the product's usability and aesthetic appeal. To improve his development, Sang might gain from improving his

	skills in system integration and broadening his knowledge of emerging technologies.
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Factor	Point limit	Chu	Vỹ	Thắng	Hoà	Khoa	Sang
Presence	10	10	10	10	9	10	9
Compliance with Deadlines	10	9	9	8	8	9	8
Communication	10	9	9	7	8	9	8
Individual Work Quality	10	10	9	7	8	10	9
Collaboration Work Quality	10	9	8	7	9	9	8
Commitment	10	9	9	8	9	10	8
Initiative	10	9	10	7	9	9	9
Technical Ability	10	10	9	7	8	9	9
Problem Solving	10	9	8	7	8	9	9
Innovation	10	9	9	6	8	8	9
Total	10	9,3	9	7,4	8,4	9,2	8,6

Figure 7 StatisticalTable1

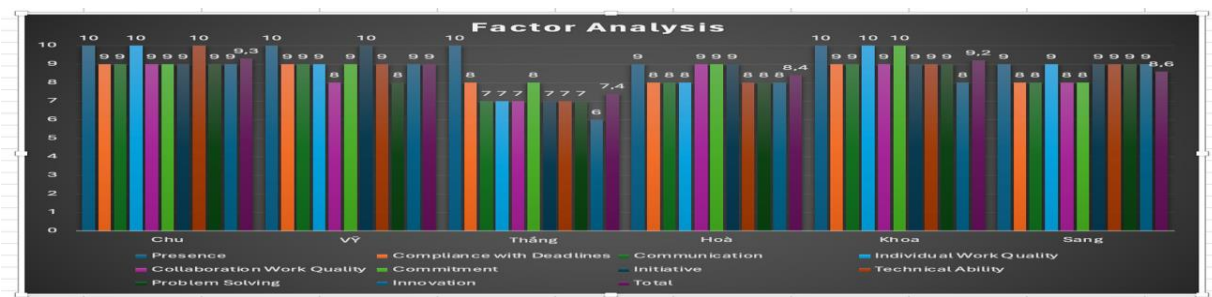


Figure 8 StatisticalTable2

Trương Vĩ Thắng has continuously shown great attendance and participation in team meetings, but he still needs to focus on improving his communication abilities, meeting deadlines more successfully, and producing higher-quality work. Increasing his emphasis on developing creative thinking and honing his front-end design abilities might greatly improve his contributions.

In every assessed category, Bùi Thiên Chu has outperformed expectations in terms of technical proficiency and leadership as a Product Owner and developer. The project has progressed significantly because to his excellent attendance, commitment to meeting deadlines, and outstanding communication skills. It is anticipated that his unwavering devotion to excellence will continue to produce fruitful outcomes.

The project's success has been largely attributed to Phạm Lê Anh Khoa's outstanding leadership and organizational abilities in her role as Scrum Master. The team's successes have been greatly aided by his proactive approach to problem-solving and proficiency in backend development.

Lý Phước Sang is a devoted worker who always reaches high standards and has shown skill in

back-end development activities. Developing his leadership skills would enable him to contribute even more to initiatives in the future.

Lê Vũ Hòa has led the team in backend development duties with remarkable talent and adaptability. He would be able to handle more difficult tasks with more effectiveness if his technical knowledge and innovative thinking were to grow further.

The team's exceptional communication and reliability have been greatly attributed to Trần Anh Vỹ. The project's success has been greatly attributed to his technical proficiency, especially in database administration. His influence on next projects will be further enhanced by his continued creativity and enhanced cooperation.

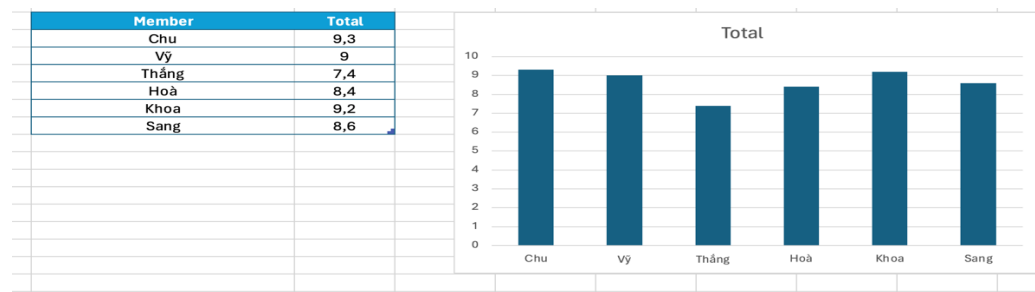


Figure 9 StatisticalTable3

Examining the Highest Performers: Bùi Thiên Chu is at the top because of his exceptional work in supporting programming and product management. With his broad understanding of technological architecture, he led the project from many angles, forming its vision and having a direct impact on its progress. Project enthusiasm and quality were greatly increased by Chu's proactive attitude to problem-solving.

Despite not working on frontend development, Phạm Lê Anh Khoa, who came in second, stands out as a Scrum Master and manager of team motivation. He has strengthened the fundamental components of the project infrastructure with his extensive knowledge in backend development, guaranteeing both time and budget adherence. The project's growing pace has been maintained because to Khoa's inventiveness in managing both technical obstacles and team relations.

In third place, Trần Anh Vỹ excels in his capacity as a database administrator. The project's success has been aided by his exacting technical talents, which have increased data processing efficiency.

Examining the Lowest Scorer: Despite his work and initiative, Trương Vĩ Thắng was given the lowest score because of shortcomings in frontend building. The overall quality of the interface and the project's advancement were impacted by the frontend's inability to satisfy the functional and aesthetic objectives of the project. Despite the fact that Thặng's testing work revealed important problems, the project's advancement was hampered by a lack of inventiveness and frontend design technical expertise.

The significance of each team member's duties and unique contributions is reflected in their score. Members with high scores exhibit leadership and project management abilities in addition to their technical proficiency, which has a direct influence on the project's results. In contrast, the difficulties the lowest scorer encountered highlight the need of ongoing professional growth and flexibility in order to finish tasks effectively.

3. Self-evaluation

As the Product Owner, , and Backend Developer for the "Green Articles" project, I had the privilege of leading our team through the challenges of creating a reliable system that meets user experience and operational goals. With both technical and administrative responsibilities, I directly influence the project's direction and ensure we solve pressing problems while staying true to strategic goals.

In my leadership role, I establish product features, prioritize the team's work, and maintain a clear vision. Technically, I've contributed to a smooth user experience and a robust backend architecture through my work on both the frontend and backend. However, I acknowledge the need for further learning and growth.

Looking ahead, I aim to enhance my ability to delegate tasks effectively, boost team productivity, and eliminate bottlenecks. Additionally, staying updated with the latest technology trends, especially in programming frameworks and advanced design concepts, will enable me to provide more innovative solutions for future projects.

4. Conclusion

The "Green Article" initiative put our collaboration and technical prowess to the test. Our team, consisting of Bùi Thiên Chu, Phạm Lê Anh Khoa, Trần Anh Vỹ, Trương Vĩ Thắng, Lê Vũ Hòa, and Lý Phước Sang, created a sturdy framework that struck a compromise between technical proficiency and cooperative dynamics. Agile processes were executed precisely thanks to the leadership of Phạm Lê Anh Khoa as Scrum Master and Bùi Thiên Chu as Product Owner and developer. The front-end integration and database expertise of Trần Anh Vỹ improved system functioning, while the problem-solving talents of Lý Phước Sang made transitions between

front-end and back-end development easier. Notwithstanding the difficulties with frontend design, Trương Vĩ Thắng was important in quality control testing and upkeep.

After giving the project some thought, we determined that team communication and frontend design needed to be improved. These realizations strengthen our will to succeed in our next undertakings and advance personally. The "Green Article" initiative had a revolutionary effect on our careers and preparedness to meet difficulties in the future with creativity and quality. We can't wait to use what we've learned in next endeavors to achieve even more success. All things considered, it was a critical turning point in our quest for knowledge, cooperation, and professional growth, laying the groundwork for subsequent successes and inventions.

5. References

1. (No date) *Agile Board - Jira*. Available at: <https://comp-1640.atlassian.net/jira/software/projects/COM/boards/1/backlog> (Accessed: 18 April 2024).
2. *Tìm hiểu về Mô hình agile Và Quy trình scrum* (no date) *Stanford*. Available at: <https://stanford.com.vn/kien-thuc-lap-trinh/tin-chi-tiet/cagId/27/id/22564/tim-hieu-ve-mo-hinh-agile-va-quy-trinh-scrum-trong-phat-trien-phan-mem> (Accessed: 25 April 2024).

6. Materials

GitHub Repository: <https://github.com/thienchu2000/FinalComp1640>

MongoDB Compass database connection string:

“mongodb+srv://admin:admin@cluster.km6q8xh.mongodb.net/?retryWrites=true&w=majority”

.env file: (required for the application to function)

uri="mongodb+srv://admin:admin@cluster.km6q8xh.mongodb.net/?retryWrites=true&w=majority"

jwt = "chuchuchuthien"

GOOGLE_MAILER_CLIENT_ID ="484456392185-

vmuvglkdocgbg7ts6vfq6ik12l77aine.apps.googleusercontent.com"

GOOGLE_MAILER_CLIENT_SECRET ="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"

GOOGLE_MAILER_REFRESH_TOKEN ="1//04r6XsdCUiFSsCgYIARAAGAQSwwF-

L9Ir60VpQ5fVJTA9Lrtwp7ipycRw9L-oSpH1fLlhKzYMnPlyuqLSHegDKiXP60nqHZOAS08"

ADMIN_EMAIL_ADDRESS ="comp16402024"

Screen cast:

https://drive.google.com/file/d/177UJl9OrFH7WQH9tMSm3_BVTWUPn_w1j/view?usp=drive_link

