Software Engineering – Project 2

Auction Sphere

Team Members:

Lavanya Middha (lmiddha)

Nayan Taori: (ntaori)

Prathamesh Thakur: (pthakur)

Github Link: https://github.com/LavanyaMiddha/Auction-Sphere-2

LavanyaMiddha/Auction-Sphere-2

Animated video link:

https://drive.google.com/file/d/1LEzCGPMM718vFeB9oCEM-H8NxQ2cuWQN/view?usp=sharing

Demo Video Link:

https://drive.google.com/file/d/1-1IImCdds80cHaB8_4Agh7kr-HKMnpRh/view?usp=sharing

Notes	Score Lavanya	Score Nayan	Score Prathamesh	
Score Total	**171**	**102**	**96**	
Workload is spread over the whole team (one team member is often Xtimes more productive than the others…	3	1	2	Evidence in GH
but nevertheless, here is a track record that everyone is contributing a lot)	3	2	2	evidence in GH
Number of commits	3	2	2	in GH

Notes	Score Lavanya	Score Nayan	Score Prathamesh	
Score Total	**171**	**102**	**96**	
Number of commits: by different people	3	30	30	in GH
Issues reports: there are **many**	3	1	1	Issues · LavanyaMiddha/Auction-Sphere-2
Issues are being closed	3	0	1	evidence in GH
Docs: doco generated, format not ugly	3	2	3	in GH
Docs: what: point descriptions of each class/function (in isolation)	3	3	3	Auction-Sphere-2/docs at add_documentation · LavanyaMiddha/Auction-Sphere-2
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	1	1	Auction-Sphere-2/docs at add_documentation · LavanyaMiddha/Auction-Sphere-2
Docs: why: docs tell a story, motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing	3	3	3	In README.md
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	1	1	Attached link above
Use of version control tools	3	3	3	In GH

Notes	Score Lavanya	Score Nayan	Score Prathamesh	
Score Total	**171**	**102**	**96**	
Test cases exist	3	3	3	dozens of tests and those test cases are more than 30% of the code base
Test cases are routinely executed	3	3	3	Code cov coverage in github workflows
Issues are discussed before they are closed	2	2	2	Issues · LavanyaMiddha/Auction-Sphere-2
Chat channel: exists	3	3	3	LavanyaMiddha/Auction-Sphere-2 · Discussions · GitHub 
Test cases: a large proportion of the issues related to handling failing cases.	3	3	3	If a test case fails, open an issue and fix it
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3	3	3	Evidence In Github

Notes	Score Lavanya	Score Nayan	Score Prathamesh	
Score Total	**171**	**102**	**96**	
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3	3	3	Evidence In Github
Evidence that the whole team is using the same tools (e.g. tutor can ask anyone to share screen, they demonstrate the system running on their computer)	3	3	3	Evidence in Github
Evidence that the members of the team are working across multiple places in the code base	3	1	2	Evidence in Github
Short release cycles	3	3	3	Evidence In Github
The file .gitignore lists what files should not be saved to the repo. See [examples]i(https://github.com/github/gitignore)	3	3	3	in GH
The file INSTALL.md lists how to install the code	3	1	1	in GH
The file LICENSE.md lists rules of usage for this repo	3	3	3	in GH
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3	3	3	in GH
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the	3	3	3	in GH

Notes	Score Lavanya	Score Nayan	Score Prathamesh	
Score Total	**171**	**102**	**96**	
system without screwing things up; e.g. see example				
The file README.md contains all the following	3			in GH
Video	3	3	3	https://drive.google.com/file/d/1-1IImCdds80cHaB8_4Agh7kr-HKMnpRh/view?usp=sharing
DOI badge: exists. To get a Digitial Object Indentifier, regiser the project at Zenodo. DOI badges look like this:				in GH Readme.MD
Badges showing your style checkers	3	2	2	Python Style Checker · Workflow runs · LavanyaMiddha/Auction-Sphere-2
Badges showing your code formatters.	3	2	2	Javascript Format Checker · Workflow runs · LavanyaMiddha/Auction-Sphere-2
Badges showing your syntax checkers.	3	2	2	Python application · Workflow runs · LavanyaMiddha/Auction-Sphere-2
Badges showing your code coverage tools	3	2	2	README.md

Notes	Score Lavanya	Score Nayan	Score Prathamesh	
Score Total	**171**	**102**	**96**	
Badges showing any other Other automated analysis tools	3	2	2	CI/CD · Workflow runs · LavanyaMiddha/Auction-Sphere-2

What is your name

Lavanya Middha

What is your email address

lmiddha@ncsu.edu

What is the name of your software?

Auction Sphere

Q1 - What your software does

Question 1.1: Does your website and documentation provide a clear, high-level overview of your software?*

Yes

Question 1.2: Does your website and documentation clearly describe the type of user who should use your software?*

Yes

Question 1.3: Do you publish case studies to show how your software has been used by yourself and others?*

Yes

Q2 - Your project's and software's identity

Question 2.1: Is the name of your project/software unique?*

No

Question 2.2: Is your project/software name free from trademark violations?*

No

Q3 - Availability of your software

Question 3.1: Is your software available as a package that can be deployed without building it?*

No

Question 3.2: Is your software available for free?*

Yes

Question 3.3: Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?*

Yes

Question 3.4: Is your software hosted in an established, third-party repository likeGitHub (https://github.com), BitBucket (https://bitbucket.org),LaunchPad (https://launchpad.net) orSourceForge (https://sourceforge.net)?*

Yes

Q4 - Your software's documentation

Question 4.1: Is your documentation clearly available on your website or within your software?*

Yes

Question 4.2: Does your documentation include a "quick start" guide, that provides a short overview of how to use your software with some basic examples of use?*

Yes

Question 4.3: If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?*

Yes

Question 4.4: Do you provide a comprehensive guide to all your software's commands, functions and options?*

Yes

Question 4.5: Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?*

Yes

Question 4.6: If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?*

Not applicable

Question 4.7: Do you store your documentation under revision control with your source code?*

Yes

Question 4.8: Do you publish your release history e.g. release data, version numbers, key features of each release etc. on your web site or in your documentation?*

Yes

Q5 - How you support your software

Question 5.1: Does your software describe how a user can get help with using your software?*

Yes

Question 5.2: Does your website and documentation describe what support, if any, you provide to users and developers?*

Yes

Question 5.3: Does your project have an e-mail address or forum that is solely for supporting users?*

Yes

Question 5.4: Are e-mails to your support e-mail address received by more than one person?*

Yes

Question 5.5: Does your project have a ticketing system to manage bug reports and feature requests?*

Yes

Question 5.6: Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?*

Yes

Q6 - Your software's maintainability

Question 6.1: Is your software's architecture and design modular?*

Yes

Question 6.2: Does your software use an accepted coding standard or convention?*

Yes

Q7 - Open standards and your software

Question 7.1: Does your software allow data to be imported and exported using open data formats?*

e.g. GIF, SVG, HTML, XML, tar, zip, CSV, JSON, NetCDF, or domain specific ones

Yes

Question 7.2: Does your software allow communications using open communications protocols?*

e.g. HTTP, FTP, XMPP, SOAP over HTTP, or domain-specific ones

Yes

Q8 - Your software's portability

Question 8.1: Is your software cross-platform compatible?*

e.g. does it run under two or more of Windows, Unix/Linux and Mac OS X, or can be used from within two or more of Internet Explorer, Chrome, Firefox and Safari?

Yes

Q9 - Your software and accessibility

Question 9.1: Does your software adhere to appropriate accessibility conventions or standards?*

Yes

Question 9.2: Does your documentation adhere to appropriate accessibility conventions or standards?*

Yes

Q10 - How you manage your source code

Question 10.1: Is your source code stored in a repository under revision control?*

Yes

Question 10.2: Is each source code release a snapshot of the repository?*

Yes

Question 10.3: Are releases tagged in the repository?*

Yes

Question 10.4: Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)*

Yes

Question 10.5: Do you back-up your repository?*

No

Q11 - Building and installing your software

Question 11.1: Do you provide publicly-available instructions for building your software from the source code?*

Yes

Question 11.2: Can you build, or package, your software using an automated tool?*

e.g. Make (https://www.gnu.org/software/make/), ANT (http://ant.apache.org/), Maven (https://maven.apache.org/), CMake (https://cmake.org/), Python setuptools (https://pypi.python.org/pypi/setuptools), or R package tools (https://cran.r-project.org/doc/manuals/r-devel/R-exts.html)

Yes

Question 11.3: Do you provide publicly-available instructions for deploying your software?*

Yes

Question 11.4: Does your documentation list all third-party dependencies?*

Yes

Question 11.5: Does your documentation list the version number for all third-party dependencies?*

Yes

Question 11.6: Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?*

No

Question 11.7: Can you download dependencies using a dependency management tool or package manager?*

e.g. Ivy (http://ant.apache.org/ivy/), Maven (https://maven.apache.org/), Python pip (https://pypi.python.org/pypi/pip) or setuptools (https://pypi.python.org/pypi/setuptools), PHP Composer (https://getcomposer.org/), Ruby gems (https://rubygems.org), or R PackRat (https://rstudio.github.io/packrat/)

Yes

Question 11.8: Do you have tests that can be run after your software has been built or deployed to show whether the build or deployment has been successful?*

Yes

Q12 - How you test your software

Question 12.1: Do you have an automated test suite for your software?*

Yes

Question 12.2: Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?*

No

Question 12.3: Do you use continuous integration, automatically running tests whenever changes are made to your source code?*

Yes

Question 12.4: Are your test results publicly visible?*

Yes

Question 12.5: Are all manually-run tests documented?*

Yes

Q13 - How you engage with your community

Question 13.1: Does your project have resources (e.g. blog, Twitter, RSS feed, Facebook page, wiki, mailing list) that are regularly updated with information about your software?*

e.g. release announcements, publications, workshops, conference presentations

No

Question 13.2: Does your website state how many projects and users are associated with your project?*

Yes

Question 13.3: Do you provide success stories on your website?*

Yes

Question 13.4: Do you list your important partners and collaborators on your website?*

Yes

Question 13.5: Do you list your project's publications on your website or link to a resource where these are available?*

No

Question 13.6: Do you list third-party publications that refer to your software on your website or link to a resource where these are available?*

No

Question 13.7: Can users subscribe to notifications to changes to your source code repository?*

Yes

Question 13.8: If your software is developed as an open source project (and, not just a project developing open source software), do you have a governance model?*

No

Q14 - How you manage contributions

Question 14.1: Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?*

Yes

Question 14.2: Do you have a contributions policy?*

Yes

Question 14.3: Is your contributions' policy publicly available?*

Yes

Question 14.4: Do contributors keep the copyright/IP of their contributions?*

Yes

Q15 - Your software's copyright and licensing

Question 15.1: Does your website and documentation clearly state the copyright owners of your software and documentation?*

Yes

Question 15.2: Does each of your source code files include a copyright statement?*

Yes

Question 15.3: Does your website and documentation clearly state the licence of your software?*

Yes

Question 15.4: Is your software released under an open source licence?*

Yes

Question 15.5: Is your software released under an OSI-approved open-source licence?*

Yes

Question 15.6: Does each of your source code files include a licence header?*

No

Question 15.7: Do you have a recommended citation for your software?*

No

Q16 - Your plans for the future

Question 16.1: Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?*

Yes

Question 16.2: Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?*

No

Question 16.3: Do you make timely announcements of the deprecation of components, APIs, etc.?*

No

AUCTION SPHERE

One-stop shop for your favourite items at desired prices!
Bid for exciting items and grab your favourite!

Auction Sphere
Bid. Buy. Sell.

Lavanya Middha, Nayan Taori, Prathamesh Thakur

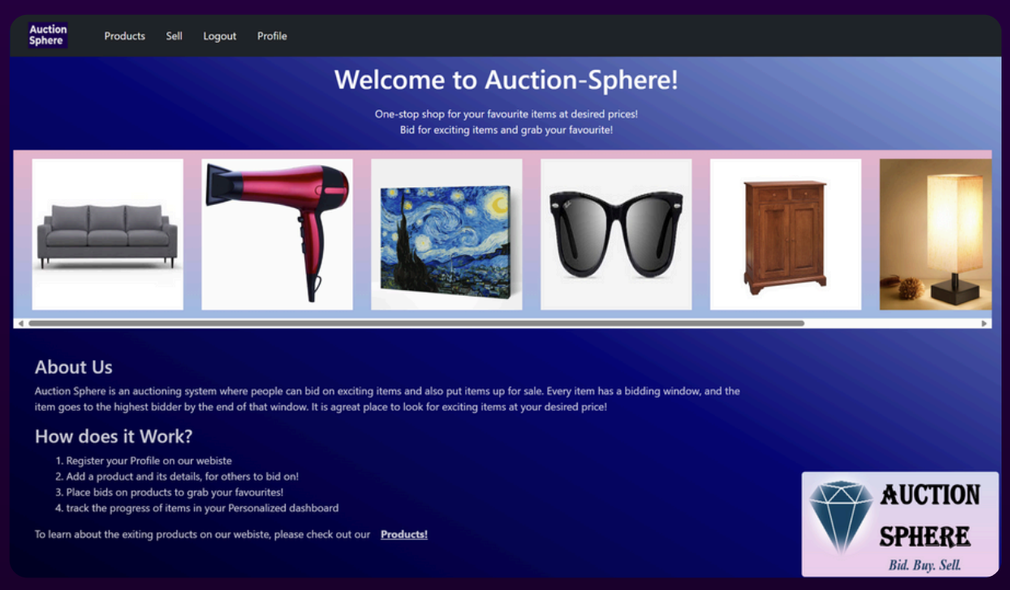
Key Features

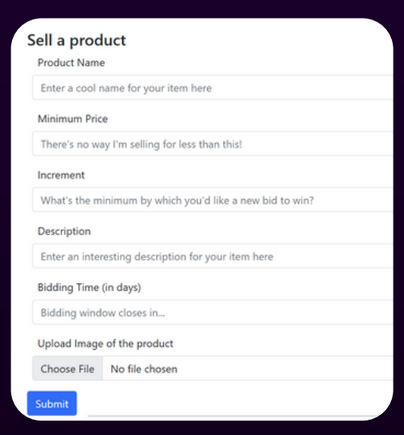
Seller:

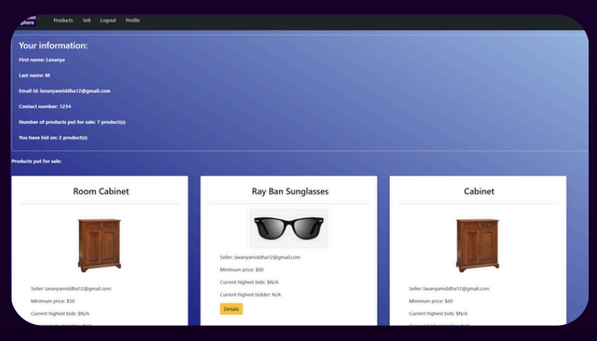
- Register your profile
- Register your products for Biding
- Add Maximum Bidding Days
- Add your most desired price and minimum bid
- Track who is bidding for your products

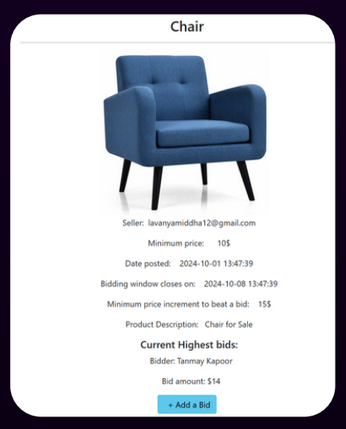
Buyer:

- Register your profile
- Bid for your favorite item
- Update Bids to secure your product!
- Benefit from good deals!
- Track bids for your favorite items!









What's New?

1. **Revamped Website UI**
   - Created a new home landing page which is more attractive and informative
   - Countdown for remaining bidding time per product
2. **Authentication**
   - Add validation checks for input fields such as number, email id, password
3. **Personalized Profile Dashboard for sellers**
   - Display products listed by seller
   - History of previous sales
   - Bidder information per product
4. **Personalized dashboard for Buyers:**
   - Display product bids by buyer
   - History of previous purchases
   - Seller information per product
5. **Enhanced Workflow and project Build Pipeline**
   - Integrated Quality Check tools such as Pylint, AutoPep8, EsLint, Prettier

Future Scope

1. **UI Enhancement**
   - Add Categories tab and List product as per categories
   - Add more parameters to describe the product on sale
   - Send email to the user with winning bid to confirm purchase
2. **Analytics**
   - Interactive Plots for bidding analytics per product
   - Dynamic Charts to depict number of users - buyers and sellers to attract more traffic to the website
3. **Automatic Bidding**
   - Add the option for a user to place bids automatically.
4. **Buy Now Option**
   - Add an option for sellers to give a buy now price and any buyer willing to pay that price can grab that product

Code Quality

- **17** Backend Testcases
- **43** Frontend Testcases
- **50 %** Code Coverage

Powered By

JavaScript

Flask

Live Demo: https://tinyurl.com/5n6sbt6k