RIDERTRACK

Sprint 6 Report

Version: 1.0.0

8th December 2017- 22nd December 2017

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Revision History

Date	Version	Description	Responsible
2/12/2017	0.1	Sprint planning	Mariano Etchart
from 8/12/2017 to 21/12/2017	0.x	Daily updates from team's members	Team
22/12/2017	1.0	Sprint review and retrospective	Mariano Etchart

1. Sprint planning

1.1 Product backlog

Refer to PB v1.5 for the product backlog version before the sprint 5 planning.

1.2 Sprint backlog

The live sprint backlog is accessible at this link: [Sprint 6 backlog](#)V2.0.

The initial sprint backlog is accessible in this link: [Sprint 6 backlog v1.0](#).

1.3 Team members availability

Member	Estimated hours
Alessandro	40
Giulia	35-40
Marzia	35-40
Mariano	40
Ante	40
Ivan	40
Josip	40

1.4 Sprint goals

High level goals for the sprint:
- Fix bugs from previous sprints
- Improve the login/registration process and add the possibility to manage personal data
- Improve the event management and participants' enrollment
- Create mobile application
- Finish implementation of the progress of an event (tracking of participants)
- Finish implementation of ranking (logic in backend and frontend page)
- Start looking at the external tracking devices and how to integrate them
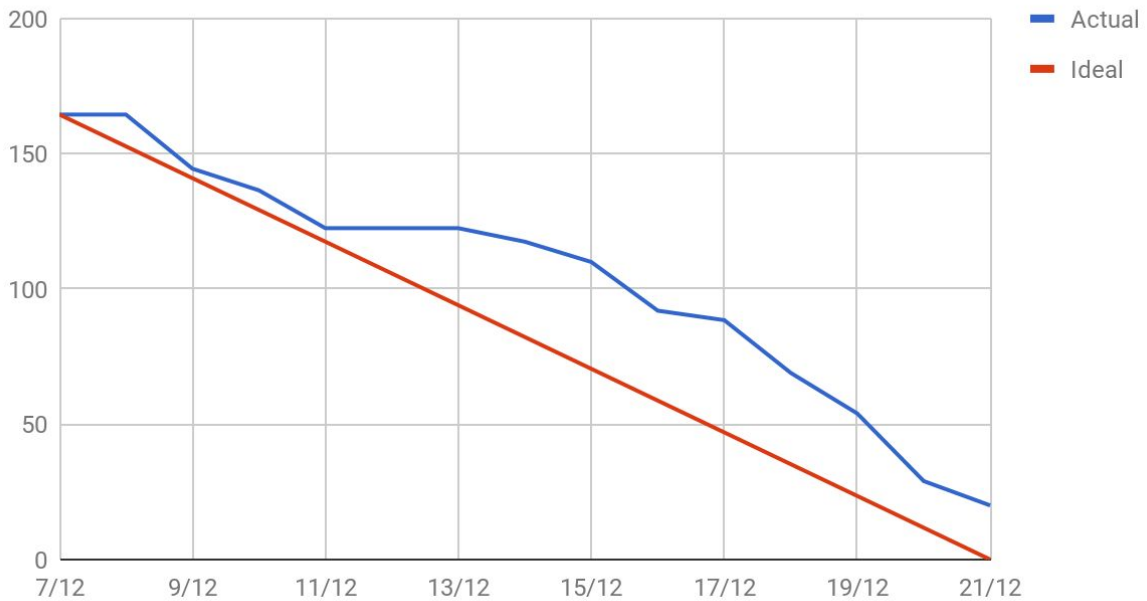
1.5 Sprint planning MOM

A textual report of the sprint planning is accessible at this link: MOM017 | Sprint 6 review and Sprint 7 planning.

2. Sprint execution

2.1 Sprint burndown chart

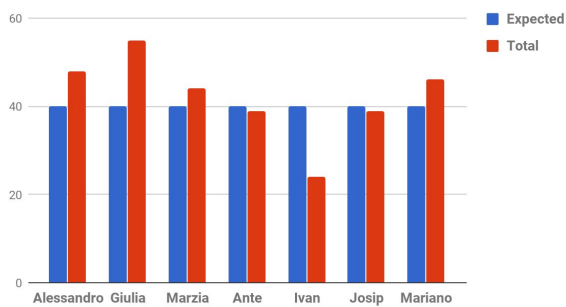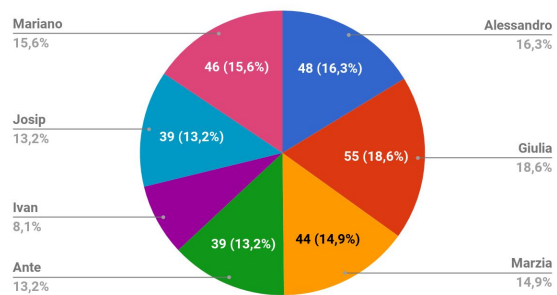The live burndown chart is accessible at this link:Sprint 6 burndown chart.

2.2 Working hours

Working hours updated on daily base are accessible at this link: Working hours.

2.3 Summary of work done

Alessandro	Total hours: 48

- Fixing requirements and project plan document due to the dropping of some requirements.
- Set up travis that builds, tests and eventually deploys to heroku
- Helped with slides preparation for Beta prototype
- Wrote Acceptance test plan document
- Investigated external devices to integrate
- Added recaptcha in registration form
- Integrated the archive page done by Ante
- Worked with Giulia, trying to integrate Google login in mobile app
- Troubleshooted general issues with mobile/backend integration with Giulia
- Added search by length in events list
- Added possibility to send email from backend
- Meeting with Michal showing the Beta prototype

Giulia	Total hours: 55

- Showing current speed in mobile app
- Sending current position from mobile app
- Working at slides for Beta prototype
- Implementing Google login
- Worked with Alessandro, trying to integrate Google login in mobile app
- Fixing application speed functions
- Allowing server to receive data even when the application is in background
- Implementing email login
- Implementing a screen with list of upcoming events in which the user is enrolled in mobile app
- Adding setting in mobile app to allow the user to decide the timeout between 2 data sendings

Marzia	Total hours: 44

- Handling errors with enrollment of a participant (front-end)
- Fixing some problems with route displaying
- Added controls on user input to start/stop an event in my events page
- Doing slides for the Beta prototype
- Fixing resizing of the route to be displayed in the map and added a map with the route saved also in event detail page (public one)
- Added different color markers to show participant on the map and the possibility to select and follow a single participant
- Write Acceptance Test document

- Worked on adding ranking in the progress page, restyling the page with the usage of tabs.

Mariano	*Total hours: 48*

- Helping slides for Beta prototype, preparing presentation
- Re-organising documentation
- Finished ranking model and schema
- Finished ranking GET routes such as get ranking and get SecondLastPosition
- Worked on reranking algorithm (the calculations and reorganization of data) which ranks the first 10 participants using a sorting algorithm, the last and second last position of the participant to determine direction and the distance from checkpoints. Participants are grouped into checkpoint groups and ranked accordingly.
- Rewrote to make it more cleaner and efficient
- Added check in backend to make sure organiser is not deleted (reviewed later by Alessandro)

Ante	*Total hours: 39*

- Fixing some problems with route displaying in event progress page
- Working at slides for Beta prototype + preparation
- Fixing the map zooming to the event city
- Added an option to delete user account from myProfile page
- Confirm password in registration process and check if they matc
- Login and registration with enter button
- Created event archive page for passed events
- Writing the Acceptance test plan document
- Implemented sending email from the contact form in the web app

Ivan	*Total hours: 24*

- Created script to simulate users for beta prototype
- Working on slides for beta prototype
- Added enrollment tests to route backend tests

Josip	*Total hours: 39*

- Working on beta prototype presentation
- Edit delete user endpoint
- Made endpoint to get passed users and for lastPosition
- Handling errors with enrollment of a participant (back-end)
- Worked on ranking-position model
- Learn, setup and write swagger file used for documenting API
- Editing acceptance test document

3. Sprint analysis

3.1 Sprint Figures and Performance

Data available in the [Sprint Backlog](#) (refer to same folder) covers information in the Tasks Planned, Burn Down Chart and Working Hours tabs of the spreadsheet. This includes:

- Work hours invested per backlog item for the current sprint
- Work hours invested per team member for the current sprint
- Estimate of total work hours needed to complete tasks in the initial sprint backlog and the actual number of work hours invested during the sprint (at the team level)
- Estimated velocity at the beginning and real sprint velocity at the end of the sprint

Back Log Analysis

Tasks Incomplete	Percentage Complete	Notes
Add possibility to recover the password	0	Abandoned on 15/12. It may be postponed to sprint 7
Don't ask to login everytime the user opens the app	0	Moved to Sprint 7
Order the list of my events by descending date (first most recent events)	0	Moved to Sprint 7. Requires changes everywhere (frontend and backend)
Add button to order by date in events list and connects it to the search logic	0	Moved to Sprint 7.
Add participants' positions in the map	90	Almost finished. Small problem: On each update of position it will add person in list of participants
Add ranking to the event detail page	80	Small details, moved to Sprint 7 for full completion
Create algorithm to create the live ranking using the positions and the route	73	Small problems encountered with callbacks, possible weaknesses in ranking algo recognised.
Add allowedDevice in event model and use this info when an user enrolls	0	Moved to Sprint 7. Time contraints

Add the possibility to decide which tracking devices allow during the race in the event management page	0	""

All incomplete and unstarted tasks were moved over to the next Sprint with some alterations to the names for a more specific break down of the task.

3.2 Sprint review

Generally the team felt this sprint was very successful. We were above the estimated hours for this Sprint although did not complete all tasks. 5 tasks were **unstarted**, 2 were in **progress** and were 29 **completed.** In terms of the Done definition only 25 tasks were **done**, those that were not, were considered low priority and not documented or tested properly, yet still implemented. Overall 165 hours were estimated and 145 hours were recorded as work done. There is a small discrepancy and well estimated. The team made the key decision to work during the Christmas holidays and the availability can be found in the encompassing folder.

3.3 Sprint retrospective

1) What Went Well? (what we should continue to do)
- Meeting with customer was successful and well communicated
- Collaboration within Slack across team was well utilized especially to solve arising problems
- Reached sprint goal by solving problems quickly and putting equal work commitment

2) What could have been better? (what we should stop doing)
- None

3) Things to try? (what we should start doing)
- Use Asana in a more proactive way (start using proper comments and tags to people) as well as writing about problems and adding links to problems, possible solutions etc.

4) Issues to escalate
- None this sprint

3.4 Sprint review and retrospective MOM

A textual report of the sprint review and retrospective is accessible at MOM17.