

# Agile Software Development

with Shashi Shekhar

A sample backlog is included with this handout. This is for the software team that is building the website and mobile applications for our fictional fitness center. Please note that the items at the top of the backlog are defined in more details with estimates. The items closer to the bottom of the backlog are bigger, less well-defined, and not yet estimated.

Theme	Title	Type	Estimate	Details/Conditions of Satisfaction	Priority	Sprint	Comment
Bug	Menu at the top of the website's homepage seems to overlap with other visual controls on iPad tablet on Safari browser.	bug	2	Menu items on the homepage of the site seem to hide other controls on the same page. Please see screenshot.	1	1	
Enhancement	As an internet user, I should be able to view the nearest fitness center location without entering my address so I can contact nearest fitness location for additional information.	feature	5	<ol style="list-style-type: none"><li>1. The web browser should ask for permission to determine my location.</li><li>2. If I deny permission to determine my location, the browser should display a message that my location could not be determined and allow me to enter my zip code or address.</li><li>3. If I allow permission to determine my location, the webpage displays the location nearest to my address. If the nearest location is more than 25 miles from my address, the webpage should display a warning message stating that the location is x miles away and still display the location.</li></ol>	2	1	

Member Profile	As a fitness club member, I should be able to view my payment history so I know how and when I am being billed.	feature	5	<ol style="list-style-type: none"> <li>1. User must be logged in to view payment history.</li> <li>2. Each payment record should show payment date, posted date, amount, payment mode, and a Y/N flag showing if the payment is part of a recurring payment plan.</li> <li>3. User should be able to filter payment history by date range.</li> <li>4. User should be able to view payments made in the last two years.</li> <li>5. Payment history must be sorted chronologically by payment date (latest payment at the top).</li> </ol>	3	1	
Information	As an internet user, I should be able to view membership types and associated monthly fee with each membership type so I can decide on joining the club.	feature	5	<ol style="list-style-type: none"> <li>1. The fitness club website should display different types of membership with monthly fee associated, sign-up fee, and discounted fee for long-term commitment with each membership type.</li> </ol>	4	1	
Bug	Font size on the Contact Us page looks different from the rest of the website.	bug	2		5	1	

Information	As an internet user, I should be able to enter my zip code or address and view contact details of the nearest location so I can visit or contact the nearest fitness club.	feature	3	<ol style="list-style-type: none"> <li>1. The webpage should validate my zip code and address. It should display an error message or matching addresses for an incomplete address.</li> <li>2. The webpage should display contact information (address and phone number) for the nearest location. It should also display the distance from my address or center of the zip code.</li> </ol>	6	1	
Trial	As a potential club member, I should be able to sign up as a trial member and print temporary badge so I can try fitness center facilities.	feature	5	<ol style="list-style-type: none"> <li>1. I should be able to enter my name, phone number, and email address so I can sign up a trial member.</li> <li>2. The webpage should generate a membership badge with scannable barcode that I could print.</li> <li>3. The webpage should email a temporary badge ID with scannable bar code.</li> <li>4. The membership should valid for three calendar days from the date of signup.</li> <li>5. The temporary badge should display "Trial Member".</li> </ol>	7	1	

Member Profile	As a fitness club member, I should be able to view and download my invoice.	feature	5	<ol style="list-style-type: none"> <li>1. The system should allow me to view and download my invoice for the last 24 months.</li> <li>2. The downloaded invoice should be in the PDF (Portable Document Format) form.</li> <li>3. Each invoice record should display invoice date and invoice amount displayed.</li> <li>4. Clicking on “link” column of the invoice record should download the invoice as pdf document.</li> </ol>			
Information	As an internet user, I should be able to view the calendar of activities at the fitness club so I can sign up for the activities.	feature	8	<ol style="list-style-type: none"> <li>1. The website should display a grid with each cell in the grid showing the activity.</li> <li>2. A user should be able to view one week’s calendar at a given point in time. Refer to attached mock user interface.</li> <li>3. Double-clicking on an item should show a webpage that shows details of the activity, such as activity type, description, and trainer name.</li> </ol>	8	2	
Employment	As an internet user, I can view employment opportunities at the fitness club so I can apply for employment online.	feature	8	<ol style="list-style-type: none"> <li>1. I should be able to view a list of all job opportunities at the fitness club. Each job opening should show the job tile, brief description, and job location.</li> <li>2. I should be able to sort by job title or location.</li> <li>3. I should be able to apply a filter by job title or location.</li> </ol>	9	2	

Employment	As an internet user, I should be able to submit an online application for employment opportunities at the fitness club.	feature	8	<ol style="list-style-type: none"> <li>1. I should be able to click on the Apply link on a job opportunity record and be redirected to the employment application page for that job.</li> <li>2. I should be able to supply my name, phone number, address, and email address on the employment application page.</li> <li>3. The address should be validated by the webpage.</li> <li>4. I should be able to upload a Word document resume of size less than 100 KB.</li> <li>5. I should receive an email that acknowledges the receipt of my job application.</li> </ol>	10	2	
Administration	As a site administrator, I should be able to send monthly newsletters to all fitness club members so I can keep them informed about the latest events at the club.	feature	5	Batch process configuration	11	2	
Member Profile	As a fitness club member, I should be able to create my online profile so I can view details of my account.	feature	5	<ol style="list-style-type: none"> <li>1. I should be able to use my fitness club member ID and email ID to set up an account.</li> <li>2. I should be able to update my name, address, and payment information on my online profile.</li> <li>3. I should be able to confirm my email.</li> </ol>	12	2	

Member Profile	As a fitness club member, I should be able to view records of my attendance at the fitness center based on inputted date range so I can view frequency of my visit to the fitness club.	feature	5	<ol style="list-style-type: none"> <li>1. User should be logged in to view a record for each visit to the fitness club.</li> <li>2. Each record should display the date and time of visit and the name of the family member who checked in.</li> <li>3. I should be able to view all visits in the last 6 months.</li> <li>4. I should be able to filter by member name and date range of visit.</li> <li>5. I should be able to view total count of visits at the bottom of the display grid.</li> </ol>	13	2	
Member Profile	As a fitness club member, I should be able to manage my address, phone number and payment information so I could continue to keep my account current.	feature		May be an epic	14	2	
Information	As an internet user, I should be able to view the profiles of personal trainers.	feature	8	<ol style="list-style-type: none"> <li>1. For each personal trainer, the site should display name, photo, and short biodata of their experience and the type of work they have done.</li> </ol>			
Information	As an internet user, I should be able to view gymnasium facilities online at the fitness club so I can decide on joining the Club.	feature		<ol style="list-style-type: none"> <li>1. The webpage should have a menu icon to view gymnasium facilities at the fitness club.</li> <li>2. Upon clicking the menu icon, the webpage should display a list of all gymnasium facilities at the fitness club.</li> </ol>			Too big

Payment	As a fitness club member, I should be able to make a payment for my membership fee so my account stays current.	feature		I should be able to pay by credit card (Mastercard/Visa/American Express) or by electronic check.			
Payment	As a fitness club manager, I should be able to accept membership fee payment for any member so their account stays current.	feature		I should be able to post a payment by credit card (Mastercard/Visa/American Express) or by electronic check.			
Member Profile	As a fitness club member, I should be able to refer a friend or family member so both of us avail referral incentives.	feature					
Member Profile	As a fitness club member, I should be able to associate my membership with my mobile app.	feature					Needs refinement.
Member Profile	As a fitness club member, I should be able to generate a member badge on my mobile phone so I can check in without my physical membership card.	feature		<ol style="list-style-type: none"> <li>1. The mobile app should display a member ID as a barcode that can be scanned.</li> <li>2. The user should be logged in with their email ID and password.</li> </ol>			
Member Profile	Maintain Personal Progress Details	feature					
Member Profile	As a registered fitness club member, I should be able to maintain fitness information so I can track my progress towards my fitness goals.	feature		Too big			

Administration	As a fitness club manager, I should be able to maintain the schedule of classes.	feature					
Administration	As a fitness club manager, I should be able to add trainer's profile to our website.	feature		I should be able to enter trainer name, biodata of 300 words or less, and upload a photo.			
Payment	As a fitness club member, I should be able to set up recurring payments.	feature					
Information	As a fitness club member, I should be able to view fitness training videos.	feature					
Member Profile	As an internet user, I should be able to set up personal training appointments	feature					
Member Profile	As a fitness club member, I should be able to cancel my membership online.	feature		If the member has any dues, the system should not allow the member to cancel membership.			
Administration	As a fitness club manager, I should be able to cancel membership of any club member.	feature		<ol style="list-style-type: none"> <li>1. If the member has any dues, the system should display a warning message to the manager and generate a letter asking the member to pay the amount due.</li> <li>2. The system should generate a cancellation letter with a preprinted address.</li> </ol>			
Mobile	Mobile app enhancements	feature					
Analytics	Data analytics: Generate various reports.	feature					